

### FINAL ACTION MEMORANDUM AND SITE EVALUATION NIKE MISSILE MAGAZINE BRAVO IN AREA 6A LIBERTYVILLE TRAINING SITE VERNON HILLS, ILLINOIS

### SOUTHNAVFACENGCOM CONTRACT NUMBER: N62467-89-D-0318

**CTO-161** 

Prepared for:



Department of the Navy
Southern Division
Naval Facilities Engineering Command
North Charleston, South Carolina

Prepared by:



EnSafe Inc. 5724 Summer Trees Drive Memphis, Tennessee 38134 (901) 372-7962 www.ensafe.com

August 30, 2002

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The Contractor, EnSafe Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0318 is complete, accurate, and complies with all requirements of the contract.

Date:	August 30, 2002		
Signature:	Jan Pean	h	
Name:	Claire Barnett, P.E.	V	
Title:	Task Order Manager		

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### List of Acronyms

AR Administrative Record

ARAR Applicable or Relevant and Appropriate Requirement

BCT Base Realignment and Closure Cleanup Team

CCI CH2M Hill Constructors, Inc.

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations

FAA Federal Aviation Administration

IR Information Repository

LSL Libertyville Screening Level LTS Libertyville Training Site

NAS Naval Air Station

NCP National Contingency Plan

PAH polynuclear aromatic hydrocarbon

PCB polychlorinated biphenyl

SARA Superfund Amendment Reauthorization Act

SVOC semivolatile organic compound

TAL target analyte list TCL target compound list

TCRA time-critical removal action

VOC volatile organic compound

### 1.0 PURPOSE

This memorandum documents the objectives and scope of the time-critical removal action (TCRA) planned for former NIKE Missile Magazine Bravo in Area 6A at the Libertyville Training Site (LTS). The purpose of this removal action is to abate the threat to public health and the environment posed by contaminated soil at this site. Subsurface soil at Magazine Bravo is contaminated with semivolatile organic compounds (SVOCs) at concentrations exceeding site remediation levels. The selected removal action is excavation of contaminated soil with disposal offsite as special waste (as determined by hazardous waste characterization) in a permitted landfill. Timing of remediation is critical based on construction schedule commitments for site redevelopment.

This document is issued by the U.S. Department of Navy, the lead agency responsible for this site. The Navy became the lead agency through the president's signing of Executive Order 12580 on January 23, 1987. This Executive Order delegated the president's authority under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendment Reauthorization Act (SARA) to federal agencies such as the Department of Defense and Department of the Navy. This authority gave the Department of the Navy the responsibility, as lead agency, for conducting response actions to remove or clean up actual or potential releases of hazardous substances, pollutants, or contaminants at its facilities.

Section 104 of CERCLA and SARA allows an authorized agency to remove, or arrange for removal, and to provide for remedial action relating to hazardous substances, pollutants, or contaminants at any time or to take any other response measure consistent with the National Contingency Plan (NCP) as necessary to protect the public health, welfare, and/or the environment.

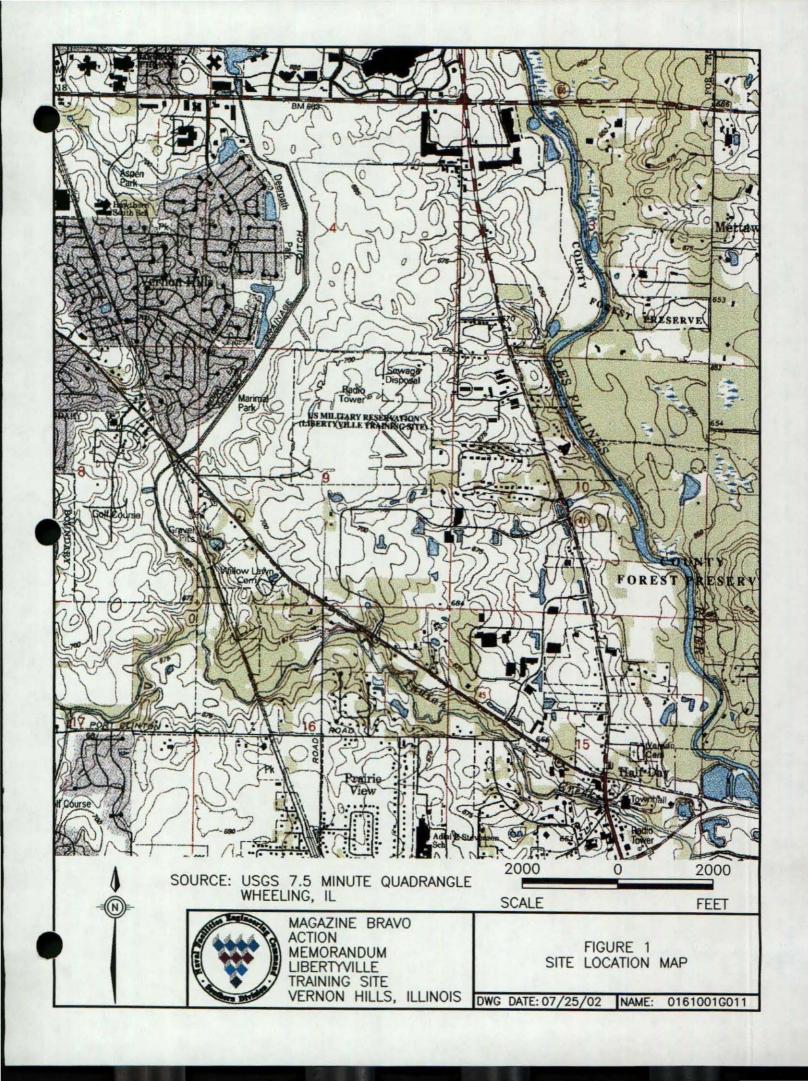
The NCP, 40 Code of Federal Regulation (CFR) 300.415 provides implementing regulations for CERCLA and SARA specific to removal actions. Conditions at this site meet the NCP section 300.415 (b)(20) criteria for a removal action.

This document was prepared pursuant to NCP, 40 CFR 300.410 and 300.415. An Administrative Record (AR) file and Information Repository (IR) have been established for this site. Sections 1, 2 and 3 of this document include information which, along with documents located in the AR and IR, serve as the Removal Site Evaluation for this TCRA. Public Notice of the TCRA, the AR, and IR was published in the *Daily Herald*, a local newspaper of record, on August 29, 2002.

### 2.0 SITE CONDITIONS AND BACKGROUND

### 2.1 Physical Location

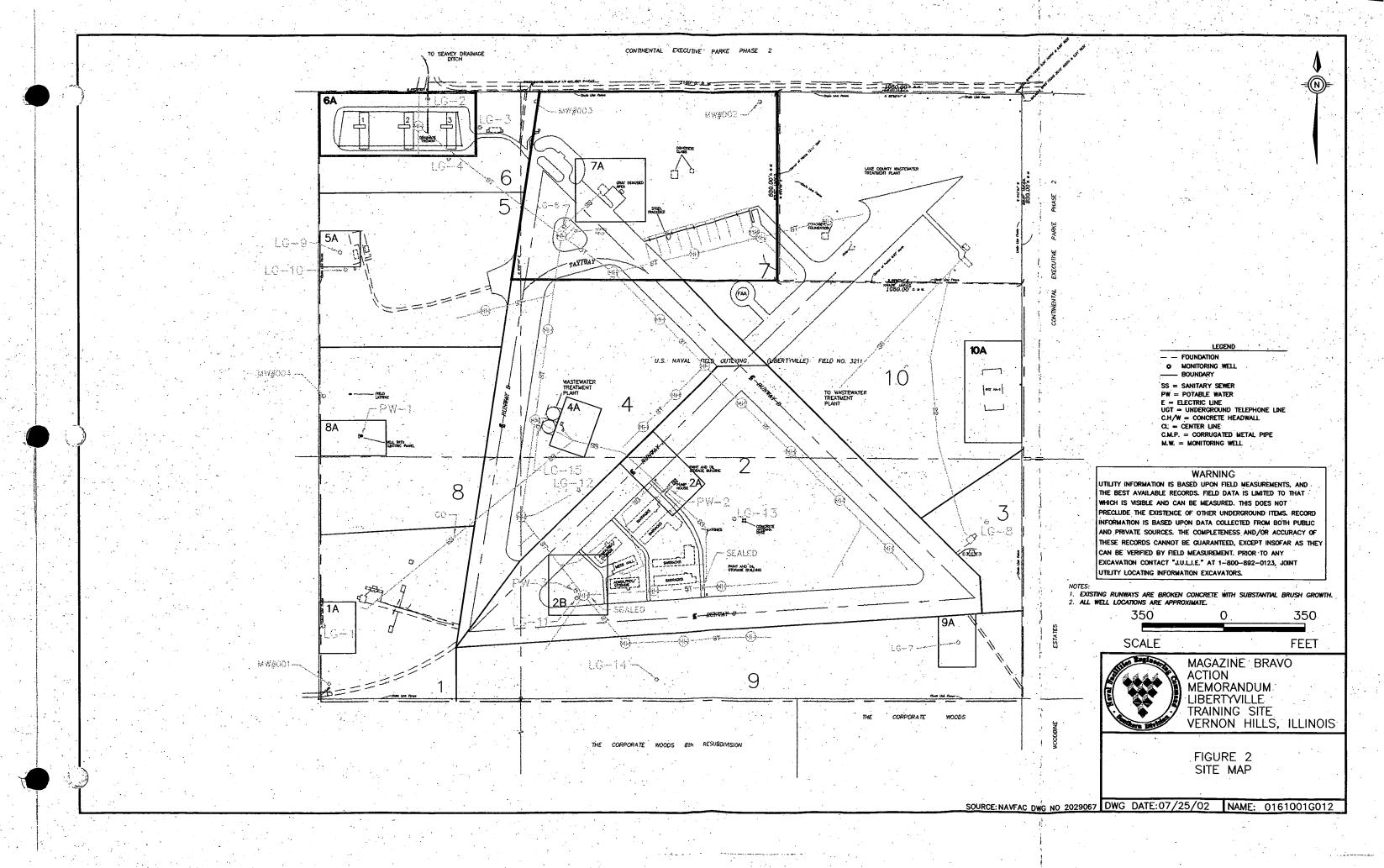
The 164.32-acre LTS is approximately 30 miles north of downtown Chicago (Figure 1). With elevations varying from approximately 690 to 705 feet above mean sea level, the LTS property is higher than the surrounding area. The Navy purchased the site in 1945 for use as an auxiliary airfield and training site for Naval Air Station (NAS) Glenview. In 1954, the LTS was transferred to the Army and used as a NIKE missile base until 1963. In 1972, the Navy resumed control of the LTS, intending to use it for NAS Glenview housing, which was never built. The LTS was later used for local military and civilian firearms training. From 1971 until the fall of 2000, the Federal Aviation Administration (FAA) used 6 acres for an aircraft navigational aid facility. In 1999, the Navy transferred 3.67 acres of the LTS to the FAA for construction of a new navigational aid facility, which became operational in the fall of 2000. As of October 2001, all of the LTS property has been transferred from the Navy to the FAA or the community, with the exception of Area 6A.

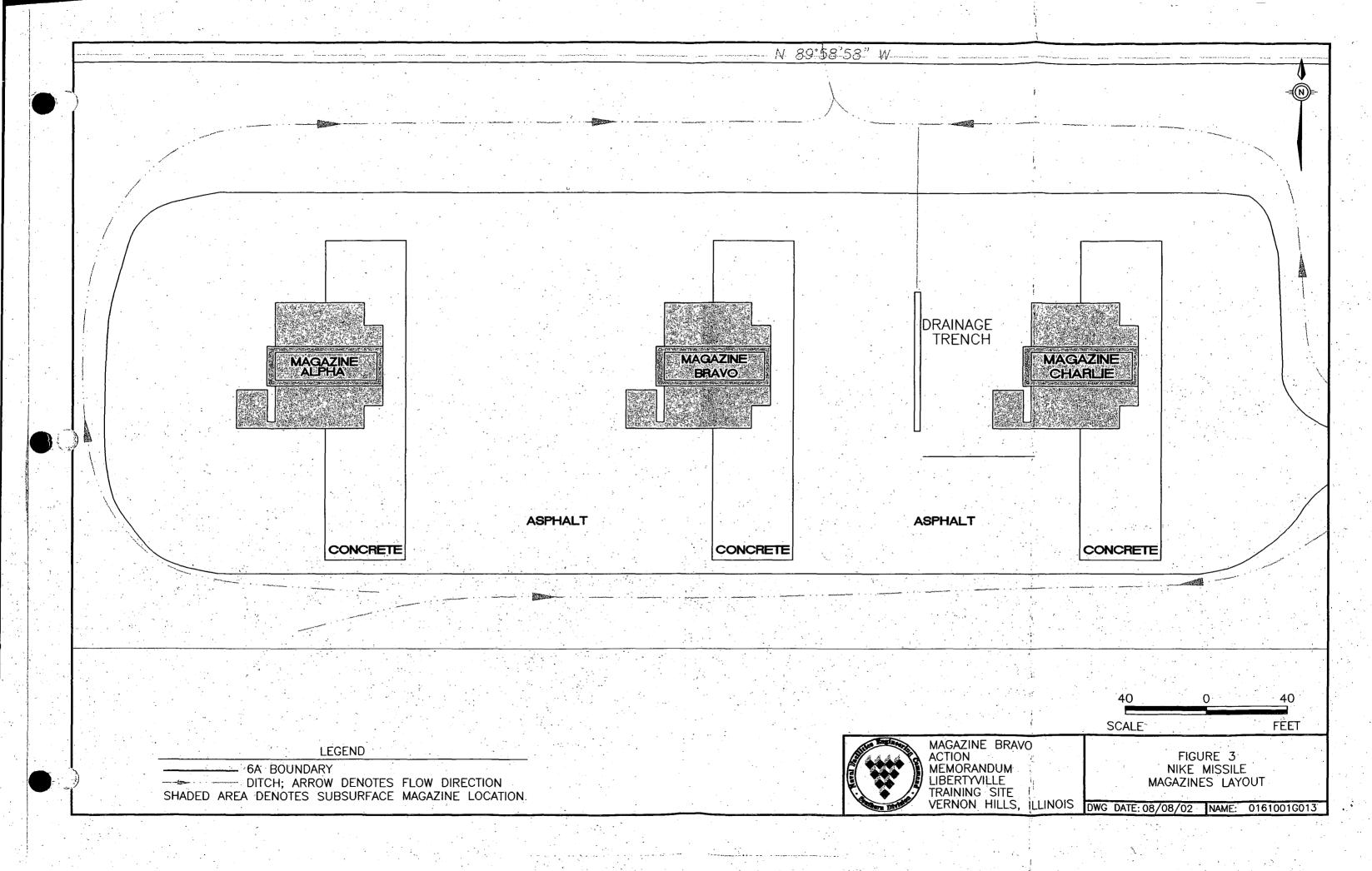


During the Environmental Baseline Survey, all LTS areas were classified "Gray," meaning they had not been evaluated or required additional evaluation. The LTS was divided into 10 areas for the investigation (Figure 2). These divisions allowed the potential environmental issues to be addressed in an organized fashion. Following the initial site investigation, areas requiring further investigation or action were separated and designated with a letter after the area number, i.e., Area 6 was divided into Areas 6 and 6A.

Area 6A contains the former C-94 Launch Area, which included three NIKE missile storage magazines. The three abandoned underground magazines are identified as Magazines Alpha, Bravo, and Charlie (Figure 3). During the site's use by the Army, NIKE missiles were stored in the magazines but were never deployed. The surface of Area 6A was paved, with a storm water drainage ditch around the perimeter of the magazines. Prior to redevelopment by the Village of Vernon Hills, most of the storm water from the LTS flowed to Area 6A via a 48-inch storm drain and was discharged to the drainage ditch immediately north of Area 6A. Trespassing has been a persistent problem over the history of the property; the abandoned magazines proved to be an attractive location for many activities. For many years, the Navy has blocked access to all three magazines to prevent trespassers from entering them. Recently, a chain-link fence was erected around Area 6A to further prevent unauthorized access to the site, and demolition of the magazines is underway. Even with the security measures currently in place, the potential for trespassing remains a concern during the demolition activities of the TCRA.

Currently, the land uses surrounding the site are suburban. Land use to the north is an office park campus; land use to the northeast, east and southeast is recreational, consisting of sports fields and open space. A storm water management reservoir is located to the south of the site. Land uses to the west and northwest are single family residential and a public park.





### 2.2 Previous Investigations

Area 6A was investigated during the Gray Sites Investigation and the Gray Sites Addendum Investigation (Final Gray Sites Investigation Report and the Final Gray Sites Addendum Part 2, EnSafe, 2000). During these investigations, Magazine Alpha was empty and accessible for entry, inspection, and sampling. Until June 2001, Magazines Bravo and Charlie were filled with water and were inaccessible. In June 2001, under a license from the Navy, the Village of Vernon Hills pumped most of the water from Magazines Bravo and Charlie. During pumping, evidence of petroleum product was observed in the last 2 to 3 feet of water in each magazine. The Village ceased its operations and the Navy returned to the site to address the newly identified environmental issues.

An investigation to assess the interior of Magazines Bravo and Charlie and to determine whether contamination existed outside the magazines was conducted in July 2001. As part of the process, soil and groundwater samples were collected from the backfill around both magazines. The analytical results, presented in the *Area 6A NIKE Missile Magazines Investigation Report* (EnSafe, 2001), indicated SVOCs exceeding Libertyville Screening Levels (LSLs) in backfill soil around the magazines. LSLs are risk-based concentrations protective of a residential property use scenario. The detected SVOCs are those commonly present in petroleum products and were thought to be the result of waterproofing material scraped off the exterior walls of the magazines during sampling. Based on these results and discussions with the Base Realignment and Closure Cleanup Team (BCT), the Navy decided to collect additional samples 5 feet from the magazine walls to assess potential impact to site soil from this material or other potential contaminant sources associated with the magazines.

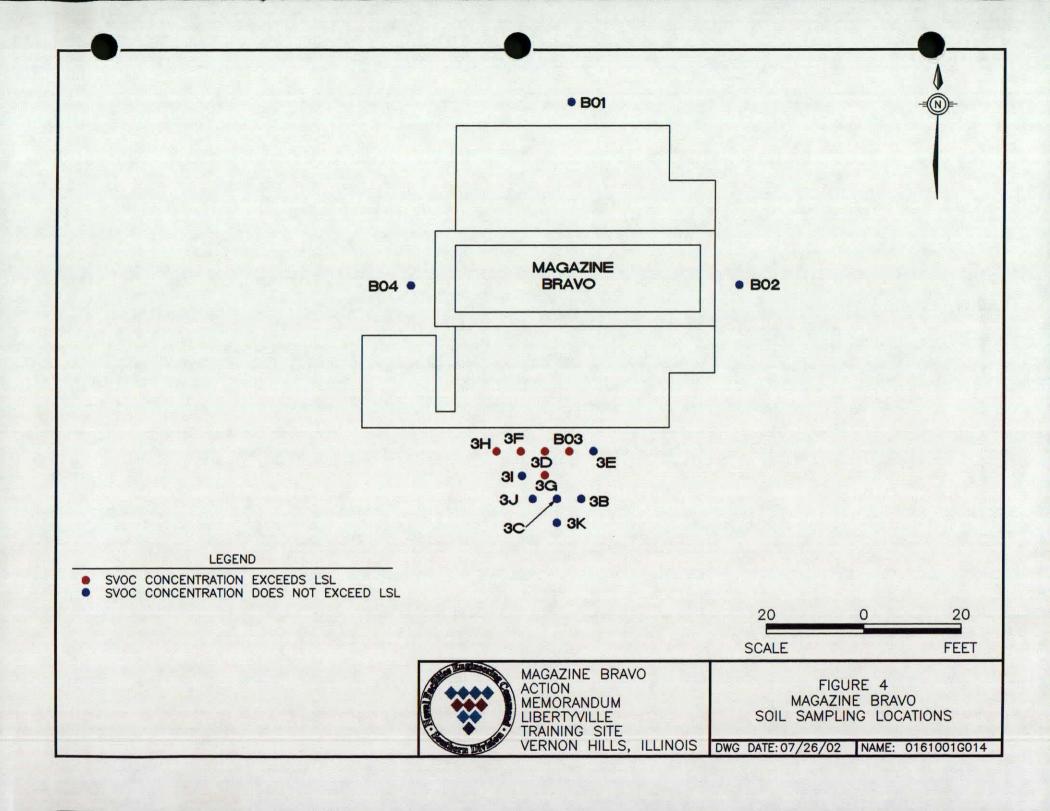
Because samples from Magazine Bravo contained contaminants exceeding LSLs, Magazine Bravo was investigated further from April to July 2002. In all, 14 soil borings were installed around Magazine Bravo during three phases of delineation sampling (see Figure 4). Soil from these borings was sampled and analyzed for target compound list (TCL) volatile organic compounds (VOCs); TCL SVOCs, including polynuclear aromatic hydrocarbons (PAHs) using low detection limits; TCL polychlorinated biphenyls (PCBs); and target analyte list (TAL) metals. The Synthetic Precipitation Leaching Procedure was conducted for six metals and soil samples were also analyzed for pH to determine the appropriate LSL screening level. Four temporary monitoring wells and one permanent monitoring well, shown on Figure 5, were installed and sampled for TCL VOCs; TCL SVOCs, including PAHs at low detection limits; TCL PCBs; and TAL metals.

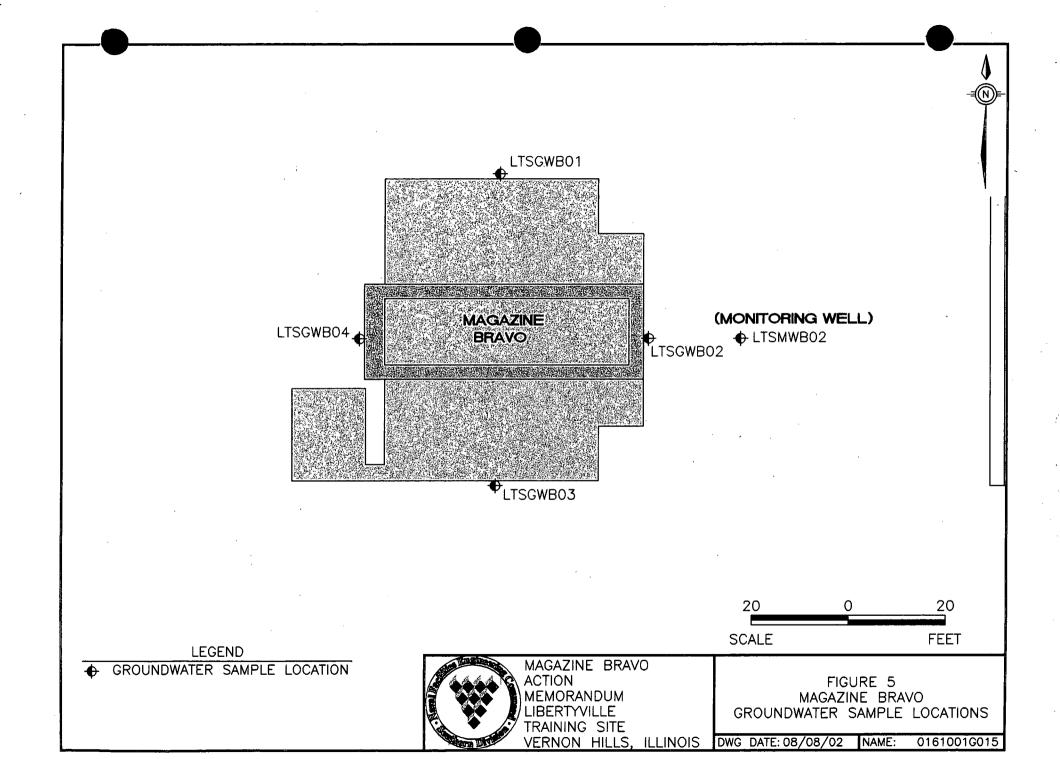
### 2.3 Sampling Results

As shown on Figure 4, SVOCs exceeded LSLs in samples from five of the soil borings. These exceedances occurred at depths ranging from 12 to 16 feet below ground surface. No groundwater samples had contaminant concentrations that exceeded LSLs. Soil exceedances are summarized in Table 1. Tables 2 through 6 present the sampling results for all constituents detected at Magazine Bravo during the 2001 and 2002 investigations of the site. A complete set of analytical results can be found in Appendix A.

# 2.4 Release or Threatened Release into the Environment of a Hazardous Substance, Pollutant, or Contaminant

Soil sampling results at Magazine Bravo showed SVOC concentrations above LSLs. Future site residents could be exposed to this soil contamination through incidental ingestion, dermal contact, or dust inhalation. The source of this contamination is thought to be associated with magazine construction activities.





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			SVOC Concentratio	Table 1 ns in Magazine Brav	o Soil (μg/kg)		
Sample Location	Sample Depth (feet)	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(a)pyrene	Dibenz(a,h)anthracene	3-Methylphenol/ 4-Methylphenol	Carbazole
B03	12 -14	2,000 D	1,700 D	1,900 D	370	ND	ND
3D -	14-16	300 J	170 J	230 J	50 J	ND	·87 J
3F	14-16	80	57	67	ND	ND	35 J
3G	12-14	5.5 J	5.6 J	5.2 J	ND	630 J	15,000
3H	14-16	300	230	260	57	ND	62 J
LSL			620	62 .	62	240 .	2,800

Notes:

 $\mu g/kg$ 

micrograms per kilogram Diluted sample. Estimated value. D ND

Not detected.
Libertyville Screening Level.
Concentration exceeds LSL. LSL Bold



### Soil Samples South of Magazine Bravo

Or	ganic Compounds	•	
		LTSSB	LTSSB
Constituent	LSL	B0305	B0314
Low Level PAHs			
Naphthalene	18,000	2.3 J	11
Acenaphthene	2,900,000	2.0 J	330
Fluorene	2,600,000	2.8 J	450
Phenanthrene	1,100,000	14	3800 D
Anthracene	22,000,000	ND	1600 D
Fluoranthene	2,300,000	15	4900 D
Pyrene	2,300,000	. 13	4600 D
Chrysene	62,000	7.1 J	1900 D
Benzo(a)anthracene	620	2.4 J	2000 D
Benzo(b)fluoranthene	620	5.3 J	1700 D
Benzo(k)fluoranthene	6,200	2.7 J	1500 D
Benzo(a)pyrene	62	1.7 J	1900 D
Indeno(1,2,3-cd)pyrene	620	7.3 J	530
Dibenz(a,h)anthracene	62	ND	370
Benzo(g,h,i)perylene	2,300,000	2.4 J	650
2-Methylnaphthalene	290,000	2.0 J	21
1-Methylnaphthalene	NA	* 1.4 J	14
Semivolatile Organic Compounds			
Carbazole	2,800	ND	ND
Volatile Organic Compounds			
Acetone	16,000	26	23
Polychlorinated Biphenyls		Not de	tected

Only detected constituents are presented.

LSL = Libertyville screening levels.

Units = Organics ug/kg; Inorganics = mg/kg

ND = Not detected.

J = Estimated value.

**Bold** = Concentration exceeds LSL.

NA = Not Available

	Ino	rganic Comp	ounds		
Constituent	LSL	Bkgd 6"-10'	Bkgr 10' - 60'	LTSSB B0305	LTSSB B0314
Metals	•	· · · · · · · · · · · · · · · · · · ·	•	-	<u> </u>
Aluminum	76,000	17,985	8,392	11,600	10,500
Arsenic	0.39	29.9	11.8	7.8	8.2
Barium	1,200	147.6	86.38	-65.3 J	65.2 J
Beryllium	150	1.26	0.7	0.6 J	0.57 J
Cadmium	37	0.34	2.1	0.26 J	0.13 J
Calcium	EN	104,000	110,922	48,600	45,800
Chromium	210	31.3	23.8	19.3	18.3
Cobalt	4,700	-25.4	13.1	11	10.8
Copper .	2,900	55.7	44.7	22.9	21.5
Iron	EN	53,577	20,936	21,700	24,500
Lead	400	27.9	14.9	15.5 J	12.5 J
Magnesium	EN	36,100	63,513	26,700	25,700
Manganese —	1,800	2,191	928	640	802
Nickel	1,500	66.6	34.9	25.9 J	25.9 J
Potassium	EN	17,905	3,180	2,530 J	2,110J
Selenium	8.8	2.11	NA	0.27 J	ND .
Sodium	- EN	NA	270	308 J	333 J
Thallium	5.2	NA	NA	2.2	1.7 J
Vanadium	550	49.4	20.6	29.3	28.5
Zinc	7,200	100,46	399	74.3 J	53.3 J

SPLP Metal	Class II Soil to GW Migration	LTSSB B0305	LTSSB B0314
Chromium	1	ND	ND
Cobalt	1	· ND	ND
Lead	0.1	ND	ND
Manganese	10	0,085	0.19
Vanadium	0.1	ND	0.008 J

Table 3 June 2002

### Phase I Delineation

### Soil Samples South of Magazine Bravo - Organics

		LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSCB	LTSSB	LTSSB	LTSSB
Constituent	LSL	B3B12	B3B14	B3B16	B3C12	B3C14	B3C16	B3D12	B3D14	B3D16	B3D16	B3E12	B3E14	B3E16
	LSE	DODIZ	DSDI4	DJDIU	B3C12	<b>D</b> 3C14	Bacto	DSD12	D3D14	DODIO	DODIO	DSEAL	DJEI4	DSETO
Low Level PAHs														
Naphthalene	18,000	1.6 J	ND	ND	2.4 J	ND	ND	20	4.3 J	26J	.56J	7.8	26	9.1
Acenaphthene	2,900,000	ND	ND .	ND	17	ND	ND	18	12	74J	220J	15	29	22
Fluorene	2,600,000	ND	ND	ND	16	ND	ND	15	12	75J	240J	21	29	18
Phenanthrene	1,100,000	4.6 J	3.2 J	4.1 J	66	1.8 J	6.2 J	71	60	220J	400J	96	110	72
Anthracene	22,000,000	ND	ND	ND	26	ND	ND	30	19	120J	360J	23	27	21
Fluoranthene	2,300,000	3.6 J	ND	2.4 J	87	ND	ND	85	62	300J	700J	98	52	78
Pyrene	2,300,000	4.7 J	7.2 J	7.4 J	71	6.5 J	3.4 J	75	55	240J	. 550J	62	41	63
Chrysene	62,000	3.5 J	8.7	9.8	31	7.8	5.0 J	34	27	110J	260J	9.1	- 20	33
Benzo(a)anthracene	620	ND	ND	ND	32	ND	ND	35	27	120J	300J	6.3 J	17	32
Benzo(b)fluoranthene	620	ND	2.3 J	3.2 J	22	2.7 J	ND	24	21	74J	170J	5.2 J	19	33
Benzo(k)fluoranthene	6,200	1.7 J	ND	ND	22	ND	ND	23	16	92J	230J	ND	ND	ND
Benzo(a)pyrene	62	ND	ND	2.5 J	26	ND	ND	28	22	97J	230J	3.4 J	- 14	-24
Indeno(1,2,3-cd)pyrene	620	ND	ND	1.6 J	12	ND	ND	13	10	44J	120J	1.7 J	8.3	13
Dibenz(a,h)anthracene	62	ND	ND	ND	4.8 J	ND	ND	4.8 J	4.1 J	14J	50J	ND	3.0 J	3.2 J
Benzo(g,h,i)perylene	2,300,000	2.6 J	5.0 J	5.1 J	13	5.9 J	3.8 J	15	11	41J	100J	4.4 J	10	12 .
2-Methylnaphthalene	290,000	0.93 J	1.1 J	ND	3.8 J	0.87 J	1.8 J	8.7	3.6 J	7.9J	14J	6.3 J	10	4.7 J
1-Methylnaphthalene	NA	ND	ND	ND	2.9 J	ND	1.5 J	6.5 J	2.9 J	5.0 J	8.9	4.4 J	6.2 J	3.3 J
Semivolatile Organic Compounds					,									
Dibenzofuran	76,000	ND	ND	ND	ND	ND	ND	ND	ND	83 J	55 J	ND	ND	40 J
Carbazole	2,800	ND	ND	ND	ND	ND	ND	ND	ND	130 J	87 J	ND	ND	56 J
bis(2-Ethylhexyl)phthalate	35,000	ND.	ND	ND	ND.	ND	ND	ND	60 J	ND	ND	ND -	ND	ND
Volatile Organic Compounds														
Acetone	16,000	13J	ND	ND	10J	ND	ND	8J	11	12	9 J	11J	12J	ND
Polychlorinated Biphenyls						-	None dete	cted in an	y sample	•				

### Notes:

Only detected constituents are presented.

LSL = Libertyville screening levels.

Units =  $\mu g/kg$ ND = Not detected.

J = Estimated value.

Bold = Concentration exceeds LSL

NA = Not Available



### Phase I Delineation

### Soil Samples South of Magazine Bravo - Metals

	]	Bkgd	Bkgd	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSCB	LTSSB	LTSSB	LTSSB
Constituent	LSL	6"-10'	10'-60'	B3B12	B3B14	B3B16	B3C12	B3C14	B3C16	B3D12	B3D14	B3D16	B3D16	B3E12	B3E14	B3E16
Metals						,										
Aluminum	76,000	17,985	8,392	10,400	9,310	7,980	9,830	8,400	10,100	10,900	9,290	10,300	9,740	11,100	9,530	9,750
Antimony .	20	1.5	0.94	ND	· ND	ND	ND	ND	ND	1.1J	ND	ND	ND	ND	ND	ND
Arsenic	0.39	29.9	11.8	9.3J	5.7J	8.5J	22.3J	6.9J	8.9J	9.6	7.8	6.9	7.7	6.1J	7.2J	6.9J
Barium	1,200	147.6	86.38.	61.6	40.7J	39.1J	65.8	33.8J	54.6	83.4	60.6	61.9	56.6	67	51.4	55.3
Beryllium	150	1.26	0.7	0.51J	0.43J	0.37J	0.48J	0.38J	0.48J	0.61J	0.53J	0.54J	0.53J	0.53J	0.44J	0.46J
Cadmium	37	0.34	2.1	0.18J	0.13J	ND	0.18J	0.11J	0.12J	ND	ND	ND	0.18J	0.16J	0.12J	0.14J
Calcium	EN	104,000	110,922	52,900	66,400	70,500	55,200	66,800	55,100	53,600	63,500	56,000	64,700	36,400	45,500	59,400
Chromium	210	31.3	23.8	17.2	16.4	15	17	15.7	17.1	18.1	16.6	17.3	16.7	18	15.9	16.6
Cobalt	4,700	25.4	13.1	10.7	9.8J	9.4J	17	8.5J	10.4J	14.2J	11J	11.2J	9.9J	9J	9.6J	10.1J
Copper	2,900	55.7	44.7	29.9	23.8	25	23.9	23.2	28.7	24.1	23.3	22.8	26.3	24.3	22.3	24
Iron	EN	53,577	20,936	23,600	18,300	19,400	33,400	18,600	22,100	24,800	22,400	21,500	23,200	19,100	20,100	20,200
Lead	400	27.9	14.9	16.6J	12.2J	14.3J	13.8J	10.8J	13.6J	16.6J	12.2J	13.5J	15.3J	12.7J	12.3J	13.2J
Magnesium	EN	36,100	63,513	31,100	40,000	40,200	35,300	39,400	32,900	27,900	34,100	30,800	35,200	20,200	27,300	34,800
Manganese	1,800	2191	928	643	626	593	808 ,	540	633	1000	- 789	647	784	516	557	686
Nickel	1,500	66.6	34.9	26.4	22.6	23.1	32.8	24.1	25.6	26.6	25.2	25.2	23.7	22.2	23.1	24.2
Potassium	EN	17,905	3,180	2,150J	2,990J	2,520J	2,780J	2,720J	2,390J	2,110J	2,300J	2,260J	2,100J	1,700J	1,960J	2,350J
Selenium ·	8.8	2.11	NA	ND	0.28J	ND	0.31J	ND	0.16J	0.36J	0.4J	0.33J	0.41J	ND	ND	ND
Sodium	EN	NA	. 270	274J	245J	240J	295J	216J	210J	142J	168J	154J	171J	252J	ND	237J
Thallium	5.2	NA	NA	ND	ND	ND	ND	0.25J	0.23J	1.8J	1.8J	1.3J	1.2J	ND	ND	ND
Vanadium	550	49.4	20.6	24.1	18.6	17.2	21.3	17.8	21.9	27.8J	23.7	23.7Ј	24Ј	23.2	20.8	21.4
Zinc	7,200	100.46	399.	.60.9	45	46.9	58	45.5	52.5	62.2J	48.6	55.6J	96.5J	58.8	49.9	53.9
	Class II Soil to								,		-					
SPLP Metals	GW Migration															
Chromium	1.0	NA	NA	0.14J	ND	0.017J	ND	ND	0.016J	0.013J	0.01J	0.038J	0.014J	ND	0.019J	0.026J
Cobalt	1.0	NA	NA	0.005J	ND	0.006J	ND	ND	0.007J	ND	ND	0.018J	0.005J	ND	0.008J	0.013J
Lead	0.1	NA	NA	0.0057J	ND	0.0069J	ND	ND	ND	0.0067J	0.0057J	0.026	0.0097	ND	0.01	0.02
Manganese	10.0	NA	NA	0.23	0.018J	0.097	0.1	ND	0.14	0.25	0.17	0.51	0.24	0.15	0.28	0.35
Vanadium	0.1	NA	NA	0.019J	ND	0.02J	0.006J	ND	0.021J	0.021J	0.016J	0.056	0.023J	0.007J	0.027J	0.038J

### Notes:

Only detected constituents are presented.

LSL = Libertyville screening levels.

Bkgd = Background.

Metals units = mg/kg; SPLP metals units = mg/L.

ND = Not detected.

J = Estimated value.

EN = Essential Nutrient.

NA = Not available / not applicable.

**Bold** = Concentration exceeds LSL (and background, when background is available).

Italics = Concentration exceeds background.

Table 5 July 2002 Phase II Delineation Soil Samples South of Magazine Bravo - Organics

		LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSCB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB
Constituent	LSL	B3D18	B3F14	B3F16	B3F18	B3G10	B3G12	B3G14	B3G14	B3G16	B3G18	B3H14	B3H16	B3H18
Low Level PAHs								• •		-		. ,		
Naphthalene	18,000	26	ND	13	7.4J	12	9.5	6.3J	4.8J	8.1	5.2J	5.7J	. 81	15
Acenaphthene	2,900,000	4.0J	5.0J ·	39	ND	7.7J	13	24J	9J	10	ND	9.4	120	3.1J
Fluorene	2,600,000	5.7J	7.8	40	. ND	11	14	34J	8.6J	11	ND	9.5	140	3.1J
Phenanthrene	1,100,000	31	50	170	20	68	55	44J	19J	60	17	42	650	25
Anthracene	22,000,000	3.4J	14	67.	. ND	14	14	24J	· 7.1J	16	ND	9.7	260	ND .
Fluoranthene	2,300,000	, 11	42	· 230	ND	· 79	38	44J	17J	46	1.8J	37	760	3.1J
Pyrene	2,300,000	10	36	140	3.5J	59	29	35J	14J	33	3.5J	25	650	4.6J
Chrysene	62,000	11 .	23	76	6.8J	33	14	16J	6.7J	20	8.4	18	270	7.5J
Benzo(a)anthracene	620	4.4J	19	80	ND	29	12	15J	5.5J	15	ND	13	300	ND
Benzo(b)fluoranthene	620	6.9J	25	57	ND ·	28	10	14J	5.6J	9	3.0J	10	230	5.1J
Benzo(k)fluoranthene	6,200	· ND	ND	49	ND	22	8.8	9.2J	3.3J	9.9	ND	9.8	180	3.3J
Benzo(a)pyrene	62	ND	ND	67	ND	28	11	13J	5.2J	ND	- ND	ND	260	4.9J
Indeno(1,2,3-cd)pyrene	620	ND ·	17	28	ND	20	13	15J	10Ј	15	ND	14	95	ND
Dibenz(a,h)anthracene	62	ND ·	ND	ND.	ND	14	ND	12J	ND	ND	ND	-11	57	ND·
Benzo(g,h,i)perylene	2,300,000	4.1J	.11	21	3.3J	12	5.5J	6.3J	2.6J	9.9	4.3J	7.1J	96	4.3J
2-Methylnaphthalene	290,000	22	1.0 <b>J</b>	. 8	. 28	4.6J	5.3J	4.2J ·	5.6J	4.73	11	4.3J	20	26
1-Methylnaphthalene	NA	15	ND	5.4J	21	3.4J	3.4J	2.7J	4.1J	3.6J	7.6J	3.4J	12	20
Semivolatile Organic					11.						,			- 42
Compounds														
3-Methylphenol/4-								4.						
Methylphenol	240	NĎ	ND	ND	ND	ND	ND ND	ND	630J	ND	ND	ND	ND	ND
Carbazole	2,800	32J	ND	35J	ND	ND	ND	ND	15,000	ND	ND	ND	. 62J	ND
2-Methylnaphthalene	290,000	ND	ND	ND ·	ND	ND	ND	ND	5,100	ND	- ND	ND	ND	ND
Dibenzofuran	76,000	ND	ND	ND	ND	ND	ND .	ND	10,000	. ND	ND .	ND	ND	ND
Di-n-Butylphthalate	2,300,000	ND	ND	ND	ND .	ND	ND	ND	ND ·	ND	ND	ND	ND	35J
Volatile Organic Compounds														
Acetone	16,000	14	14	14	12	23	10	16	19	12J	10	ND	13	ND
Polychlorinated Biphenyls			•				None de	tected in any	sample				· .	

Only detected constituents are presented. This data has not been validated.

LSL = Libertyville screening levels.

Units =  $\mu g/kg$ 

ND = Not detected.

J = Estimated value.

Bold = Concentration exceeds LSL

NA = Not Available

# Table 5 July 2002 Phase II Delineation Soil Samples South of Magazine Bravo - Organics

	·	LTSSB	LTSSB	LTSSB .	LTSSB	LTSCB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB
Constituent	LSL	B3I14	B3I16	B3I18	B3J10	B3J10	B3J12	B3J14	B3K10	B3K12	B3K14
Low Level PAHs			•	,							
Naphthalene	18,000	2.7Ј	. ND	5.8J	2.0J	8.0J	ND	ND	3.2J	11	ND
Acenaphthene	2,900,000	ND	ND	ND	ND	13J	ND	ND	ND	10	ND
Fluorene	2,600,000	1.4J	ND	2.3J	2.1J	19J	ND	ND	2.3J	. 14	ND
Phenanthrene	1,100,000	11	7.4Ј	17	12J	69J	4.8J	1.5J	12	99	5.4J
Anthracene	22,000,000	ND	1.8J	3.2J	2.6J	23J	ND	ND	2.7J	24	ND
Fluoranthene	2,300,000	2.6J	6.9J	12	15J	120J	3.0J	ND	16	150	ND
Pyrene	2,300,000	3.6J	6.7J	9.8	12J	94J	3.4J	3.6J	10	120	2.2J
Chrysene	62,000	3.7J	4.3J	7.4J	7.6J	42J	3.5J	4.6J	7.6J	69	4.4J
Benzo(a)anthracene	620	ND	2.9J	5.7J	6.7J	39J	ND	ND	6.7J	70	ND
Benzo(b)fluoranthene	620	2.9J	3.4J	5.2J	8.1J	29J	ND	3.1J	7.5J	60	ND
Benzo(k)fluoranthene	6,200	ND	2.1J	4.0J	5.1J	28J	ND	ND	5.0J	53	ND
Benzo(a)pyrene	62	ND	3.4J	ND	6.9J	34J	ND	ND ·	5.9J	62	ND
Indeno(1,2,3-cd)pyrene	620	ND	ND	11	11J	24J	ND	ND	ND	25	ND
Dibenz(a,h)anthracene	62	ND	ND	ND	ND	15J	ND	ND	ND .	19	ND
Benzo(g,h,i)perylene	2,300,000	2.2J	3.1J	4.1J	2.9J	18Ј	ND	2.9J	2.4J	. 18	2.0J
2-Methylnaphthalene	290,000	4.6J	ND	12	2.5J	4.8J	ND	ND	1.2J	3.5J	ND
1-Methylnaphthalene	NA	6.4J	ND	8.7	1.7J	3.2J	ND	ND	ND	2.4J	ND
Semivolatile Organic Compounds										-	
Dibenzofuran	76,000	ND	ND	ND	ND	ND	ND ·	ND	ND	ND	ND
Carbazole	2,800	ND	ND.	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	290,000	ND	ND	ND	ND	ND ND	ND	ND	ND	. ND	ND.
Dibenzofuran	76,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Butylphthalate	2,300,000	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND
Volatile Organic Compounds	-,000,000										
Acetone	16,000	8	ND	10	11	10	18	ND	12	12Ј	10
Polychlorinated Biphenyls					N	one detected	in any sample				

Notes:

Only detected constituents are presented. This data has not been validated.

LSL = Libertyville screening levels.

Units =  $\mu g/kg$ 

ND = Not detected.

J = Estimated value.

**Bold** = Concentration exceeds LSL

NA = Not Available



### Phase II Delineation

### Soil Samples South of Magazine Bravo - Metals

<u> </u>	<u> </u>	Dlead	Dirad	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB	LTSCB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB
G 4'44	1 51	Bkgd	Bkgd		B3F14	B3F16	B3F18	B3G10	B3G12	B3G14	B3G14	B3G16	B3G18	B3H14	B3H16	B3H18
Constituent	LSL	6"-10'	10'-60'	B3D18	B3F14	B3F16	B3F18	B3G10	B3G12	B3G14	B3G14	B3G10	B3G18	B3H14	B3H10	вэнів
Metals			,	<u> </u>						,						
Aluminum	76,000	17,985	8,392	6,190J	7,590J	8,750J	6,430J	10,700J	10,600J	9,270J	10,600J	9,260J	7,650J	11,000J	8,900J	7,470J
Arsenic	0.39	29.9	11.8	8.4J	11.7J	7.23	6.7J	7.3J	7.9J	7.8J	6.9J	8J ,	7.9J	8.7J	7.1J	7.0J
Barium	1,200	147.6	86.38	27.7Ј	73.8	50.1	31.1J	57.5	47.3	40.7J	61.4	45.5	33.4J	64.6	53	35.6J
Beryllium	150	1.26	0.7	0.32J	0.45J	0.46J	0.33J	0.53J	0.54J	0.48J	0.56J	0.48J	0.40J	0.55J	0.45J	0.40J
Cadmium	37	0.34	2.1	ND	ND	ND	ND	0.12J	0.15J	ND -	ND ·	0.086J	ND	0.090J	0.096J	ND
Calcium	EN	104,000	110,922	75,200	69,600	57,300	73,900	51,800	57,600	62,400	43,100	62,100	74,900	50,400	57,400	78,200
Chromium	210	31.3	23.8	11.9	15	15.7	12.8	17.6	17.8	16.2	17	16.3	14.4	18	15.4	13.9
Cobalt	4,700	25.4	13.1	8.0J	10.4J	9.91	9.2J	9.5J	9.93	9.9J	9.1J	9.8J	10.7J	14.1	9.8J	9.1J
Соррег	2,900	55.7	44.7	19.7	23.8	23.7	21.5	23.9	25	24	25.3	25.4	22.1	24.7	23.3	22.6
Iron	· EN	53,577	20,936	19,200	21,100	19,400	16,900	20,900	21,900	19,500	20,700	20,800	18,100	21,400	20,100	17,200
Lead	400	27.9	14.9	11.8J	14.3J	12. <b>7J</b>	10.8J	15.0J	13.3J	12.5J	12.6J	12.6J	11.2J	13.5J	14.9J	11.4J
Magnesium	EN	36,100	63,513	39,900	38,100	32,300	38,800	29,500	33,600	35,800	24,700	36,100	41,000	29,500	33,100	35,500
Manganese	1,800	2191	928	599 .	703	669	595	636	673	693	487	635	648	602	653	600
Nickel	1,500	66.6	34.9	19.7J	23.9J	24.5J	22.1J	24.2J	25.6J	24.2J	23J .	24.5J	25J	28.9Ј	24Ј	21.5J
Potassium	EN	17,905	3,180	1,810J	2,220J	2,0001	1,820J	2,400J	2,760J	2,430J	1,690J	2,480J	2,460J	2,440J	1,720J	2,270J
Sodium	EN	NA	270	341J	346J	358J	296J	289J	292J	323J	319J	330J	334J	292J	336J	326J
Thallium	5.2	NA	NA	ND	ND	ND	ND	ND-	ND	ND	ND	ND	ND	ND	ND	· ND
Vanadium -	550	49.4	20.6	17.6	22.4	22.7	18.4	26.6	25.7	23	24.1	24.1	20.3	27.1	22.6	19.7
Zinc	7,200	100.46	399	36.4J	48.7J	46.2J	37.7J	54.8J	52J	46.6J	50.2J	53.1J	43.8J	54.1J	50.8J	37.2J.
	Class II Soil															
	to GW								• •							İ
SPLP Metals	Migration				·				•							İ
Chromium	1.0	NA	NA	0.016J	0.012J	0.016J	0.018J	ND	0.013J	ND	0.017J	ND	ND .	0.010J	0.032J ~	ND
Cobalt	1.0	NA	NA	0.005J	ND -	0.005J	0.006J	ND	ND	ND	0.005J	ND	. ND	ND	0.013J	ND
Lead	0.1.	NA	, NA	ND	ND	0.013	0.0066J	ND	ND	ND	0.0061J	ND	ND	ND	0.02	ND
Manganese	10.0	NA	NA	0.086	0.16	0.18	0.12	0.11	0.17	0.058	0.17	0.063	0.027J	0.19	0.36	0.057
Vanadium	0.1	NA	NA	· 0.023J	0.018J	0.025J	0.024J	0.007J	0.018J	0.009J	0.025J	0.011J	ND	0.017J	0.048J	0.011J

### Notes:

Only detected constituents are presented. Data has not been validated.

LSL = Libertyville screening levels.

Bkgd = Background.

Metals units = mg/kg; SPLP metals units = mg/L.

ND = Not detected.

B = Estimated value.

EN = Essential Nutrient.

NA = Not available / not applicable.

**Bold** = Concentration exceeds LSL (and background, when background is available).

Italics = Concentration exceeds background.



### Phase II Delineation

### Soil Samples South of Magazine Bravo - Metals

		Bkgd	Bkgd	LTSSB	LTSSB	LTSSB	LTSSB	LTSCB	LTSSB	LTSSB	LTSSB	LTSSB	LTSSB
Constituent	LSL	6"-10'	10'-60'	B3I14	B3I16	B3I18	B3J10	B3J10	B3J12	В3J14	B3K10	B3K12	B3K14
Metals					^							1	•
Aluminum	76,000	17,985	8,392	6,450J	7,090J	7,410J	7,410J	10,600J	10,500J	8,440J	9,030J	8,840J	6,570J
Arsenic	0.39	29.9	11.8	6.3J	7.0J	6.9J	7.4J	7.8J	8.6J	7.1J	2.9J	11.6Ј	6.3J
Barium	1,200	147.6	86.38	50.9	30.3J	33.1J	42.8	55	46.1	31.1J	31.0J	30.0J	27.1Ј
Beryllium	150	1.26	0.7	0.35J	0.37J	0.39J	0.40J	0.52J	0.54J	0.44J	0.45J	0.49J	0.34J
Cadmium	37	0.34	2.1	0.21J	ND	0.088J	ND	0.13J	0.13J	ND	0.16J	0.11J	ND
Calcium	EN	104,000	110,922	79,100	71,400	72,200	63,800	50,800	61,200	66,200	65,600	57,900	70,100
Chromium	210	31.3	23.8	13	13.3	14	14	17.6	18	15.5	16.1	16.2	13.1
Cobalt	4,700	25.4	13.1	8.6J	8.8J	9.43	9.0 <b>J</b>	9.4J	8.9J	9.0J	9.2J	11.4	9.3
Copper	2,900	55.7	44.7	21.2	22.8	24.8	21.9	24.6	24.7	22.2	22.6	27.2	21.5
Iron	EN	53,577	20,936	16,900	17,400	17,500	19,100	22,000	21,300	17,900	11,600	24,300	15,700
Lead	400	27.9	14.9	10.6 <b>J</b>	10.6J	11.3J	11.6J	13.5J	.12.1J	. 10.1J	13.4J	17.4J	11.0J
Magnesium	EN	36,100	63,513	44,500	38,900	39,200	34,800	30,100	35,500	38,100	37,900	36,300	38,000
Manganese	1,800	2191	928	821	604	608	710	553	604	578	523	490	599
Nickel	1,500	66.6	34.9	21.5J	22.8J	23.2J	22.1J	24.7Ј	24.3J	24.3J	24.2J	27.5J	21.6J
Potassium	EN	17,905	3,180	1,870J	2,160J	2,350J	1,890J	2,710J	2,910J	2,620J	2,790J	2,290J	1,900J
Sodium	EN	NA	270	309J	344J	367J	303J	316J	316J	327J	255J	294J	281J
Thallium	5.2	NA	NA	ND	1.7 J	ND	ND	ND	ND	ND	ND ·	ND	ND
Vanadium	550	49.4	20.6	18.8.	19.5	20.7	20.1	25.6	25.1	21.2	21.3	23.9	19
Zinc	7,200	100.46	399	59J	38.6J	40.2J	40.1J	56.2J	49J	63.3J	70J	56.5J	38.7J
•	Class II Soil									:			
	to GW						,						
SPLP Metals	Migration												
Chromium	1.0	NA	· NA	0.022J	ND	ND	0.020J	0.024J	ND	ND	ND	ND	0.53
Cobalt	1.0	NA	· NA	0.0081	ND	ND	0.007J	0.009J	ND	ND	ND	ND	0.021J
Lead	0.1	NA	NA	0.012	ND	ND	0.012	0.012	ND	ND	ND	ND	0.017
Manganese	10.0	NA	NA	0.29	0.034J	0.030J	0.22	0.12	0.030J	ND	ND	ND	0.33
Vanadium	0.1	NA	NA	0.031J	0.007J	0.007J	0.032J	0.036J	0.008J	0.008J	ND	. ND	0.074

#### Notes:

Only detected constituents are presented. Data has not been validated.

LSL = Libertyville screening levels.

Bkgd = Background.

Metals units = mg/kg; SPLP metals units = mg/L.

ND = Not detected.

B = Estimated value.

EN = Essential Nutrient.

NA = Not available / not applicable.

**Bold** = Concentration exceeds LSL (and background, when background is available).

Italics = Concentration exceeds background.

The proposed removal area is shown on Figures 6 and 7. Based on the sampling results, approximately 111 cubic yards of SVOC-contaminated soil will require removal. Because the extent of contamination has not been fully delineated to the west, confirmation sampling results will be used to determine whether adequate soil volume has been removed. As necessary, additional soil will be removed until confirmation sampling results are equal to or less than the LSLs.

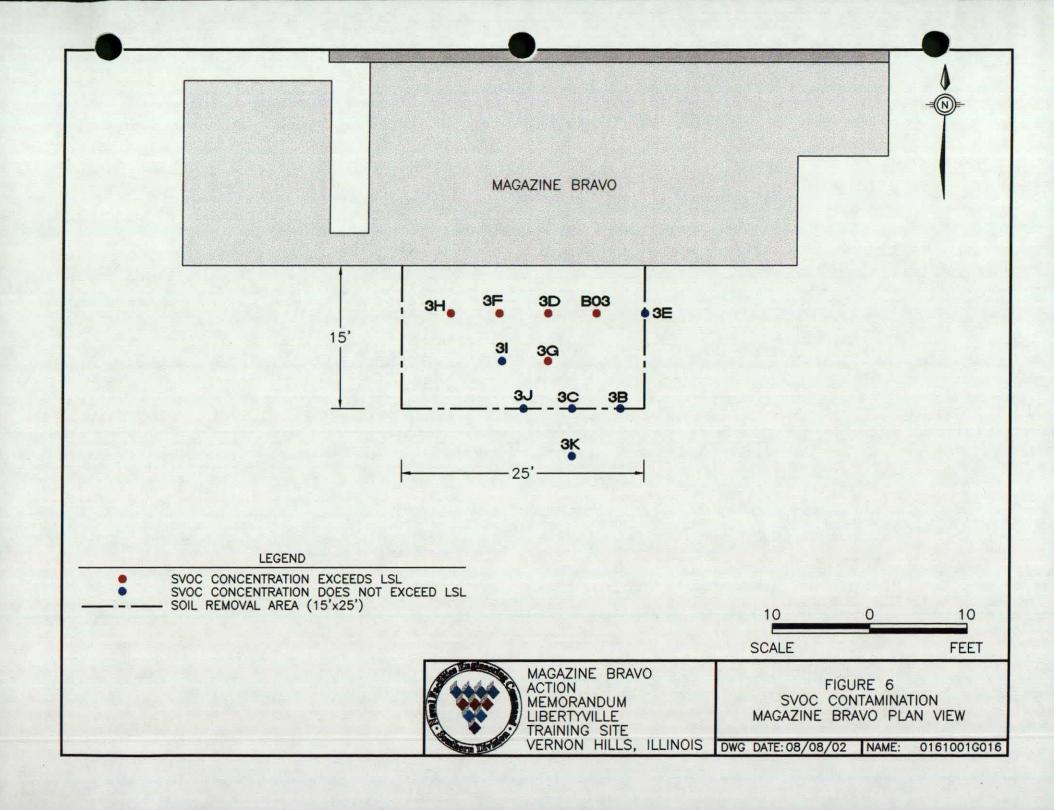
### 2.5 National Priorities List Status

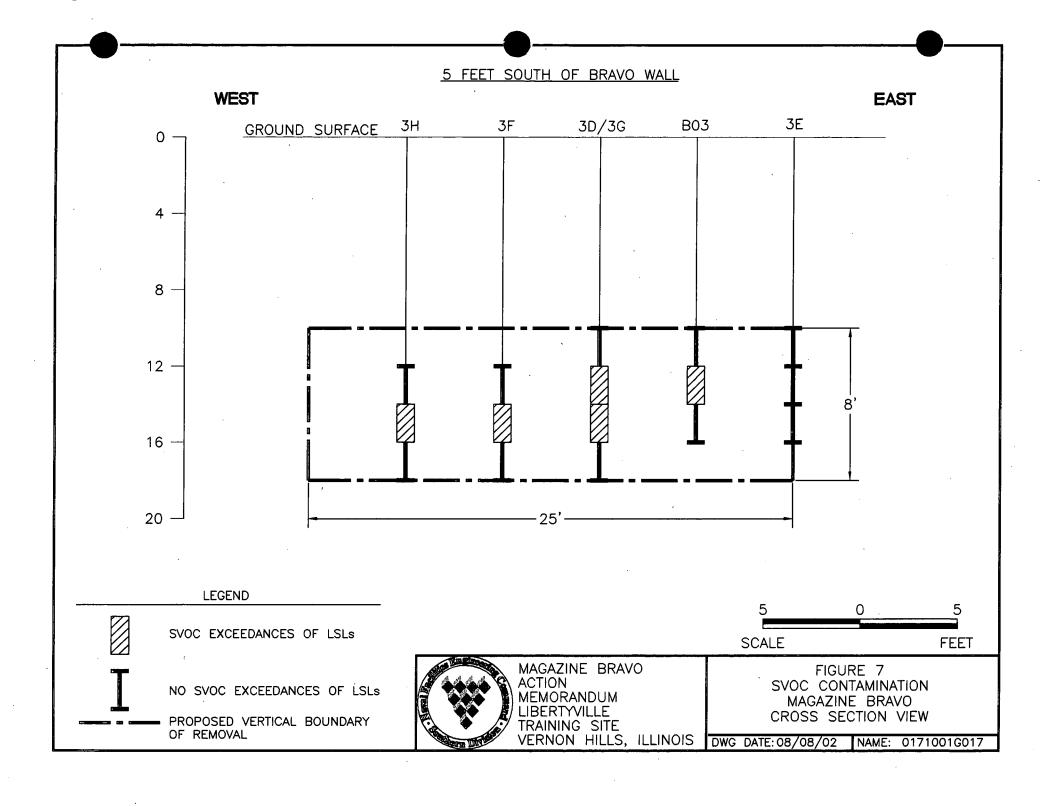
Magazine Bravo is neither listed nor proposed for listing on the National Priorities List. The LTS has not received, and is not expected to receive, a Hazard Ranking System rating.

### 2.6 Current Actions

As a result of the July 2001 investigation, the Navy decided to remove accumulated water from the three magazines, remove all remaining equipment and debris from inside the magazines, clean the interiors, and demolish the magazines. The Navy's Remedial Action Contract contractor, CH2M Hill Constructors (CCI), is performing this work. Details of this project are presented in the Work Plan Addendum No. 1, Nike Missile Magazine Removal, (CCI, 2002).

Soil samples collected near Magazine Bravo had SVOC concentrations in excess of LSLs; therefore the site may pose an unacceptable risk to future site users. The anticipated post-cleanup use of the property is storm water detention and recreation. The Village of Vernon Hills desires that the site be remediated for residential/unrestricted use in time to accommodate site redevelopment schedules. Therefore, a time-critical removal action was proposed for Magazine Bravo during a BCT conference call in June 2002.





### 2.7 State and Federal Authorities' Role

The United States Environmental Protection Agency and the Illinois Environmental Protection Agency concur with the selected time-critical removal action for this site.

### 3.0 THREAT TO PUBLIC HEALTH, WELFARE, OR THE ENVIRONMENT

Because of the time-critical nature of this removal action, a baseline risk assessment was not performed. However, concentrations of SVOCs in soil exceeded LSLs, which are protective of a residential property use scenario. Also, there is a potential for exposure of site trespassers to contaminated soil. Therefore, the Navy will remove all soil at Magazine Bravo in which SVOC concentrations exceed LSLs, which are also protective of site trespassers since they are derived using more conservative residential assumptions for contaminant exposure duration and exposure frequency. The chemicals of concern for this site are the SVOCs listed in Table 1. The cleanup levels for this site will be the SVOC LSLs, which are summarized in Table 7.

Table 7 Magazine Bravo Cleanup Levels (μg/kg)				
Compound	Cleanup Level			
Acenaphthene	2,900,000			
Acenaphthylene	120,000			
Anthracene	22,000,000			
Benzo(a)anthracene	620			
Benzo(a)pyrene	62			
Benzo(b)fluoranthene	620			
Benzo(g,h,i)perylene	2,300,000			
Benzo(k)fluoranthene	6,200			
4-Bromophenyl-phenylether	NA			
Butylbenzylphthalate	930,000			
Carbazole	2,800			
4-Chloro-3-Methylphenol	NA			
4-Chloroaniline	700			
bis(2-Chloroethoxy)Methane	NA			

	Table 7 Magazine Bravo Cleanup Levels (μg/kg)				
Compound	Cleanup Level				
bis(2-Chloroethyl)Ether	0.4				
2-Chloronaphthalene	110,000				
2-Chlorophenol	20,000				
4-Chlorophenyl-phenylether	NA				
2,2-oxybis(1-Chloropropane)	NA				
Chrysene	62,000				
Di-n-Butylphthalate	2,300,000				
Di-n-Octyl-Phthalate	1,200,000				
Dibenz(a,h)anthracene	62				
Dibenzofuran	76,000				
1,2-Dichlorobenzene	43,000				
1,3-Dichlorobenzene	1,000				
1,4-Dichlorobenzene	3,400				
3,3-Dichlorobenzidine	33				
2,4-Dichlorophenol	1,000				
Diethylphthalate	470,000				
Dimethyl Phthalate	380,000				
2,4-Dimethylphenol	9,000				
4,6-Dinitro-2-Methylphenol	. NA				
2,4-Dinitrophenol	200				
2,4-Dinitrotoluene	0.8				
2,6-Dinitrotoluene	0.7				
bis(2-Ethylhexyl)phthalate	35,000				
Fluoranthene	2,300,000				
Fluorene	2,600,000				
Hexachlorobenzene	300				
Hexachlorobutadiene	6,200				
Hexachlorocyclopentadiene	10,000				
Hexachloroethane	2,600				
Indeno(1,2,3-cd)pyrene	620				
Isophorone	8,000				
2-Methylnaphthalene	290,000				

Table 7 Magazine Bravo Cleanup Levels (μg/kg)				
Compound	Cleanup Level			
2-Methylphenol	15,000			
4-Methylphenol	240			
N-Nitroso-Di-n-Propylamine	0.05			
N-Nitrosodiphenylamine	5,600			
Naphthalene	18,000			
2-Nitroanilie	3,500			
3-Nitroaniline	NA			
4-Nitroaniline	NA			
Nitrobenzene	100			
2-Nitrophenol	NA			
4-Nitrophenol	NA .			
Pentachlorophenol	140			
Phenanthrene	1,100,000			
Phenol	100,000			
Pyrene	2,300,000			
1,2,4-Trichlorobenzene	53,000			
2,4,5-Trichlorophenol	1,400,000			
2,4,6-Trichlorophenol	770			

Notes:

NA

Not available. micrograms per kilogram.  $\mu {\rm g/kg}$ 

### 4.0 ENDANGERMENT DETERMINATION

Contaminants from this site, if not addressed by implementing the response action selected in this Action Memorandum, may endanger public health or welfare based on future property use plans.

### 5.0 PROPOSED ACTIONS AND ESTIMATED COSTS

The proposed removal action consists of excavation with offsite disposal in a permitted landfill, and site restoration, which was considered the most feasible, timely, and cost-effective remedy.

### 5.1 Description of the Proposed Action

The purpose of this time-critical removal action is to mitigate threats to human health and the environment posed by contaminated soil at Magazine Bravo. The selected removal action combines the following general components:

- 1. Excavation and stockpiling of the top 10 feet of non-impacted soil (approximately 139 cubic yards) overlying the contaminated soil.
- 2. Excavation of an 8-foot depth of contaminated soil (approximately 111 cubic yards) starting 10 feet below ground surface immediately south of Magazine Bravo.
- 3. Sampling the soil for hazardous waste characterization. Based on the results, a landfill will be chosen for disposal in accordance with applicable State of Illinois solid waste regulations.
- 4. Monitoring of potential hazards during the removal by a certified environmental health and safety officer, and implementation of appropriate precautions to protect human health and the environment.

- 5. Excavation of all identified soil to the extent indicated in this report unless further sampling shows otherwise.
- 6. Collection of confirmatory samples in the excavated area to ensure that all contaminated soil is removed. Soil will be removed until samples show that soil concentrations are less than LSLs.
- 7. Backfilling of the excavated areas with stockpiled soil and additional clean borrow, as needed. The backfilled area will be seeded and mulched to prevent erosion. Precautions will be taken to avoid potential hazards from the excavated areas before they are backfilled.

The proposed removal action — excavation of the contaminated soil and disposal in a permitted landfill — would mitigate the public health threat posed by incidental soil ingestion, dermal contact, or dust inhalation. Excavation of contaminated soil also reduces potential contaminant release to the environment. This action provides long-term protection because all of the contaminated soil will be removed from the site. Confirmatory samples will be collected from the bottom and the west wall of the excavation to ensure that all contaminated soil has been removed. Additional soil removal may be necessary based on the confirmatory sampling results. No post-removal site control activities will be required for this site because all of the contaminated soil will be removed.

Removal of contaminated soil to a landfill is technically feasible. Permits will be required for offsite disposal of contaminated soil, which can be easily removed and deposited in a landfill with minimum technical application. Offsite disposal in a secure, permitted landfill is technically viable because landfill designs are based on standard engineering practices. Construction activities such as excavation, backfilling, and seeding are standard tasks, often used for removal actions, and raise few technical concerns. Personnel and materials required for excavation, transportation, and construction are readily available because the LTS is in a metropolitan area.

The time required to implement the response action is approximately one week. An implementation consideration for this alternative is weather, including rain, which may pose difficulties and delays during excavation.

Public acceptance of this alternative is likely because contaminants would be removed from an uncontrolled environment and placed in an engineered landfill with modern best-achievable technology controls and monitoring equipment. Although fugitive dust is possible during soil excavation, water can be used to control it, if necessary. Other control measures such as cover, hay bales, and silt fences would be implemented to prevent soil erosion in disturbed areas, if necessary.

### 5.2 Contribution to Remedial Performance

Implementation of the time-critical removal action would be effective in reducing the potential exposure of human populations to hazardous substances. It constitutes a permanent solution that would ensure the overall protection of human health and the environment by removing all contaminated soil from the site. Confirmatory samples will be collected from the bottom and the west wall of the excavation and compared with the LSLs to ensure that all contaminated soil is removed. Once this proposed removal action is completed, no further action will be required at Magazine Bravo.

### 5.3 Applicable or Relevant and Appropriate Requirements (ARARs)

SARA Section 121(d)(2)(A) mandates that CERCLA site remediation comply with all ARARs. Applicable requirements are specific to the site conditions and satisfy all jurisdictional prerequisites of the law or requirements. Relevant and appropriate requirements do not have jurisdictional authority over the site's circumstances, but are meant to address similar situations and, therefore, are suitable for use there. As outlined by the NCP Part 300.415(I), the Department of the Navy may consider the urgency of the situation and the scope of the removal action to be conducted in determining whether compliance with ARARs is practical.

ARARs are generally divided into three categories: chemical-specific, location-specific, and action-specific. Chemical-specific ARARs apply to individual contaminants. Location-specific ARARs depend on the contaminant's location and potential restrictions on activities conducted in these areas (e.g., wetlands or floodplains). Action-specific ARARs, which govern the remedial action, are usually technology- or activity-based directions or limitations that control actions taken at CERCLA sites.

Some potential ARARs are listed in the preamble to the NCP, as amended in March 1990. Other ARARs and to-be-considered criteria have been added during a search of federal and state environmental requirements and advisories. Table 8 presents ARARs that must be attained or considered as part of this removal action.

### 5.4 Project Schedule

The proposed removal action is time-critical because of the need for timely property transfer without deed restriction. Otherwise, construction schedule commitments for redevelopment of the LTS property will be adversely affected.

A removal action work and sampling plan will be prepared by CCI. The removal action is scheduled to begin as soon as regulatory agencies' approval is received. Excavation, confirmatory sampling, and soil disposal will take approximately two days. Unvalidated analytical results of the confirmatory samples will be available one to two days after sampling. Validated results will be available four weeks after sampling. These results will be submitted to IEPA and USEPA for review when fully validated confirmatory sampling results for all sampling locations indicate that all contaminated soil above the LSLs has been removed. Backfilling and regrading activities at the site will not begin until IEPA and USEPA concur that the data is usable, complete, and accurate, and that all contaminated soil has been successfully removed. Backfilling and regrading will require approximately one day for completion. If confirmatory sampling indicates that additional excavation is required, the removal action process could continue one to two weeks longer.

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Table 8 Applicable or Relevant and Appropriate Requirements							
Requirements	Status	Requirement Summary	Comment				
		Federal ARARs					
The Defense Base Closure and Realignment Act of 1990 (P.L. 101-510, 104 Stat. 1808)	Applicable	LTS is closing under BRAC.	Applicable because a removal action is required.				
CERFA (P.L. 102-426)	Applicable	Regulations controlling inactive hazardous wastes sites.	Applicable because a removal action is required.				
CERCLA (104, 106, 107, 120, 121, 122)	Applicable	Regulations controlling inactive hazardous wastes sites.	Applicable because a removal action is required.				
CERCLA 121 (d)(3)	Applicable	CERCLA wastes can only be transferred to facilities that are in compliance with RCRA, TSCA, or other applicable federal and state requirements.	Applicable because a removal action may be required and waste will be hauled offsite to another location.				
National Contingency Plan, 40 CFR 300	Applicable	Governs all actions at CERCLA sites.	Applicable because a removal action is required.				
Executive Order 12580	Applicable	The Navy has lead authority for CERCLA actions.	Applicable because the Navy is conducting the remedial activities.				
RCRA Identification of Hazardous Waste 40 CFR 261	Applicable	Criteria for identifying those solid wastes subject to regulation as hazardous waste under RCRA.	Wastes will be identified as RCRA hazardous waste or non-hazardous waste prior to, and during, remedial activities.				
RCRA 40 CFR Parts 264, 265, 268, 270	Relevant and Appropriate	Excavation, disposal and handling of hazardous wastes.	A generator who treats, stores, or disposes of hazardous waste onsite must comply with the applicable standards and permit requirements.				

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		Table 8 Applicable or Relevant and Appropriate	Requirements
Requirements	Status	Requirement Summary	Comment
		Federal ARARs (continued)	
RCRA Land Disposal Restrictions 40 CFR 268	Relevant and Appropriate	Certain classes of waste are restricted from land disposal without acceptable treatment.	Removal of site-excavated soil for land disposal may trigger the regulation. The excavated soil is presumed to be non-hazardous based on initial samples taken during investigations at this site.
Clean Water Act General Pretreatment Regulations for Existing and New Sources of Pollution 40 CFR 403	Applicable	Establishes the limits for pollutant discharge to publicly owned treatment works (POTW) and the requirement for pretreatment, if applicable.	Removal actions may include the discharge of runoff or other flows to a POTW.
		State ARARs	
Illinois Environmental Protection Act 45 ILCS 5 Sec 22.01	Applicable	Requires manifest for the transport of special waste.	Any soil removed from the site should be appropriately labeled and manifested.
Illinois Solid and Special Waste Management Regulations IAC, Title 35 Subtitle G Subpart C Part 807.310	Applicable	Hazardous or liquid wastes or sludges may be accepted at a sanitary landfill only if authorized by permit.	Applicable to soil removal activities.
Illinois Solid and Special Waste Management Regulations IAC, Title 35 Subtitle G Subpart E Part 807.501—807.666	Applicable	General provisions for closure and post-closure of waste management sites.	This site meets all requirements for closure under Illinois regulations.

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		Table 8 Applicable or Relevant and Appropriate	Requirements
Requirements	Status	Requirement Summary	Comment
		State ARARs (continued)	
Illinois Solid and Special Waste Management Regulations IAC, Title 35 Subtitle G Part 808.121 and 808.302	Applicable	Requires generators to determine if a waste is a special waste; provides a manifest to the hauler; provides classification of special waste.	When removal is initiated, all waste will be classified and appropriate documents will be provided before the waste leaves the site.
Illinois Environmental Protection Act Title III Water 415 ILCS 5/12	Applicable	No person shall cause or allow the discharge of contaminants into the environment to cause water pollution in Illinois, and no person shall deposit any contaminants on land in such place and manner as to create a water pollution hazard.	Groundwater contamination from site remediation is not a concern since contaminants have been on site for a long period of time and have not adversely impacted groundwater at Areas 6A.
Illinois Water Pollutant Discharge Act 415 ICLS 25	Applicable	Prohibits the discharge of oil or other pollutants into any waters.	Applicable if removal actions generate wastewater to be treated onsite prior to discharge to state waters. Water from any remediation activities may be discharged to the POTW.
Illinois Water Pollution Control Rules Title 35 Subtitle C Chapter I Part 301.104	Applicable	All methods of sample collection, preservation, and analysis shall be consistent with EPA approved methods.	Applicable to all site sampling activities. USEPA methods will be followed.
Illinois Pretreatment Regulations Title 35 Subtitle C Chapter 1 Part 310	Applicable	Establishes requirements for sewer discharge and requires pre-approval from the POTW for discharge.	Water from remediation activities may be discharged to the sewer.  Any discharge will comply with the terms of the permit.
Illinois Effluent Guidelines and Standards Title 35 Subtitle C Chapter 1 Part 307	Applicable	Places restrictions on, and provides standards for, the types, concentrations, and quantities of contaminants that can be discharged to the sewers.	Water from remediation activities may be discharged to the sewer. Any discharge will comply with the terms of the permit.

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·		Table 8 Applicable or Relevant and Appropriate	Requirements
Requirements	Status	Requirement Summary	Comment
		State ARARs (continued)	
Illinois Groundwater Quality Standards Title 35 Subtitle F Chapter I Part 620	Applicable	Establishes classifications and provides the procedures for the management and protection of groundwater.	Applicable if contaminants are left onsite to ensure that groundwater is protected from potential migration of contaminants. This is not likely, however.
Tiered Approach to Corrective Action Objectives Title 35 subtitle G Chapter I Subchapter F: Risk Based Cleanup Objectives Part 742	To be considered	Provides procedures to evaluate the risk to human health posed by environmental conditions, and develops remedial objectives that ensure such risks achieve acceptable levels.	Applicable to any soil removal objectives. Should be considered when setting remediation goals.

A Removal Action Completion Report will be prepared by CCI in accordance with EPA-540/R94/023, *Superfund Removal Procedures, Removal Response Reporting*, and submitted to the BCT for review. It will be finalized within 60 days after the remedial action is implemented. The project schedule is presented in Table 9.

Proposed Proj	Table 9 ect Schedule: Magazine Bravo Ti	me-Critical Remov	al Action
Task	Responsible Party	Time Required	<b>Estimated Completion Date</b>
Draft Site Investigation Report	Navy/EnSafe Inc.	30 days	August 30, 2002
BCT Review	IEPA & U.S.EPA	30 days	October 4, 2002
Final Site Investigation Report	Navy/EnSafe Inc.	14 days	October 18, 2002
Draft Action Memorandum	Navy/EnSafe Inc.	14 days	August 9, 2002
BCT Review	IEPA & U.S.EPA	14 days	August 23, 2002
Final Action Memorandum	Navy/EnSafe Inc.	7 days	August 30, 2002
Draft Time-Critical Soil Removal Action Excavation Plan & Sampling & Analysis Plan	Navy/CH2M Hill Constructors	14 days	August 9, 2002
BCT Review	IEPA & U.S.EPA	14 days	August 23, 2002
Final Time-Critical Soil Removal Action Excavation Plan & Sampling & Analysis Plan	Navy/CH2M Hill Constructors	7 days	August 30, 2002
Time-Critical Removal Action & Confirmation Sampling	Navy/CH2M Hill Constructors	7 days	September 6, 2002
Data Validation & Draft Site Closure Report	Navy/CH2M Hill Constructors	45 days	October 15, 2002
BCT Review	IEPA & U.S.EPA	30 days	November 15, 2002
Final Site Closure Report	Navy/CH2M Hill Constructors	14 days	November 29, 2002
Draft Proposed Plan	Navy/EnSafe Inc.	14 days	November 29, 2002
BCT Review	IEPA & U.S.EPA	14 days	December 13, 2002
Final Proposed Plan	Navy/EnSafe Inc.	7 days	December 20, 2002
Proposed Plan - Public Review	Navy/EnSafe Inc.	30 days	January 21, 2003
Draft Decision Document	Navy/EnSafe Inc.	30 days	December 20, 2002
BCT Review	IEPA & U.S.EPA	30 days	January 27, 2003
Final Decision Document	Navy/EnSafe Inc.	14 days	February 7, 2003
Decision Document Signed	Navy, IEPA, & U.S.EPA	30 days	March 14, 2003

#### 5.5 Estimated Costs

The estimated costs of the recommended action, excavation with offsite disposal, are summarized in Table 10.

Table 10 Excavation With Offsite Disposal:	Cost Summary	
Description	Cost	
Contractor		
Work Plan	•	\$2,000
Removal Action Supervision		\$12,000
Closure Report		\$7,000
Home Office Expenses (Contractor)		\$1,000
Fees (Contractor)		\$3,000
Subtotal		\$25,000
Subcontractor		
Removal Action		\$5,500
Disposal (Special Waste)		\$5,000
Backfill and Restoration		\$3,500
Analytical		\$6,000
Home Office Expenses (Contractor)	,	\$1,000
Fees (Contractor)		\$2,000
Subtotal		\$23,000
10% Contingency		\$4,800
Total Cost		\$52,800

#### Notes:

All costs are rounded to the nearest hundred dollars.

Costs are based on current data.

#### 6.0 EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

Delayed action at Magazine Bravo will increase the likelihood of contaminant migration from the site. There is also a potential risk of exposure of contaminated soil to future residents, site trespassers, and site workers if no action is taken. In addition, there may be significant costs associated with delay of this action due to construction schedules associated with redevelopment

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of this property. Transfer of the property to the community is not possible until the removal action is completed.

#### 7.0 OUTSTANDING POLICY ISSUES

There are no outstanding policy issues for this removal action.

#### 8.0 ENFORCEMENT

No enforcement action is in effect or anticipated at Magazine Bravo. The Navy, the lead agency for these sites, is voluntarily investigating and remediating the site.

#### 9.0 RECOMMENDATION

This decision document represents the selected time-critical removal action for Magazine Bravo in Area 6A at the Libertyville Training Site, Vernon Hills, Illinois. It was developed in accordance with the CERCLA, as amended, and is consistent with the NCP. Conditions at this site meet the NCP section 300.415 (b)(20) criteria for a removal action. This decision is based on the Administrative Record for this site. Agreement with this recommendation will be indicated by signing below.

Barbara Nwokike Remedial Project Manager BRAC Cleanup Team Date

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Appendix A Analytical Data

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

Page:

LOW PAH SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTSSBB0118 L S242909*5 S LTSSBB0118 L 04/26/02 0 05/01/02 0 05/02/02 0 Soil S	TS-C-BB01-18 TSCBB0118 242909*6 TSCBB0118 14/26/02 15/01/02 15/02/02 0il G/KG	LTS-S-BB02-18 LTSSBB0218 S242909*3 LTSSBB0218 04/26/02 05/01/02 05/02/02 Soil UG/KG	LTS-S-BB02-25 LTSSBB0225 S242909*4 LTSSBB0225 04/26/02 05/01/02 05/01/02 05/02/02 Soil UG/KG	LTS-S-BB03-05 LTSSBB0305 S242909*9 LTSSBB0305 04/26/02 05/01/02 05/02/02 Soil UG/KG	LTS-S-BB03-14 LTSSBB0314 S242909*10 LTSSBB0314 04/26/02 05/01/02 05/02/02 Soil UG/KG
CAS # Parameter	209315 VAL 2	09315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL
91-20-3 Naphthalene 91-57-6 2-Methylnaphthalene 208-96-8 Acenaphthylene 83-32-9 Acenaphthene 86-73-7 Fluorene 85-01-8 Phenanthrene	1.3 J 7.9 U 7.9 U 7.9 U 7.9 U 7.9 U	1.5 J 8. U 8. U 8. U 8. U 7.1 J	6.2 J 8.2 J 8.5 U 11. 13.	2.7 J 1.6 J 8.2 U 2.4 J 3.2 J 8. J	2.3 J 2. J 7.4 U 2. J 2.8 J	11. 21. 7.7 U 330. 450. 3800. D
120-12-7 Anthracene 206-44-0 Fluoranthene 129-00-0 Pyrene 56-55-3 Benzo(a)anthracene 218-01-9 Chrysene 205-99-2 Benzo(b)fluoranthene 207-08-9 Benzo(k)fluoranthene	7.9 U 3. J 4.8 J 7.9 U 3.9 J 7.9 U	1.4 J 2.9 J 4.8 J 8. U 3.9 J 8. U	25. 92. 87. 38. 41. 27. 28.	2.8 J 7.2 J 8.1 J 2.6 J 4.1 J 2.7 J 2.3 J	7.4 U 15. 13. 2.4 J 7.1 J 5.3 J 2.7 J	1600. D 4900, D 4600. D 2000. D 1900. D 1700. D
50-32-8 Benzo(a)pyrene 193-39-5 Indeno(1,2,3-cd)pyrene 53-70-3 Dibenz(a,h)anthracene 191-24-2 Benzo(g,h,i)perylene 90-12-0 1-Methyl naphthalene	7.9 U 7.9 U 7.9 U 2.5 J 7.9 U	8. U 8. U 8. U 2.3 J 8. U	20. 33. 22. 19. 20. 5.6 J	2.5 J - 8. J - 8.2 U - 2.8 J - 8.2 U	7.3 J 7.3 J 7.4 U 2.4 J	1900. 0 530. 370. 650.
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# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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CAS #	Parameter	209315 VAL	209315 VAL	209722 VAL	209722 VAL	209722 VAL	209722 VAL
91-57-6 208-96-8 83-32-9 86-73-7 85-01-8 120-12-7 206-44-0 129-00-0 56-55-3 218-01-9 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3 191-24-2	Naphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene 1-Methyl naphthalene	2.5 J 9.6 7.8 U 2.1 J 3.1 J 13.4 J 7. J 8.3 2.4 J 5.1 J 2.1 J 7.8 U 2. J 7.8 U 2. J 7.8 U 3.1 J 7.8 U 3.1 J 7.8 U 3.1 J 7.6 J	5.5 J 16. 7.7 U 7.7 U 7.7 U 14. 7.7 U 7.7 U 3. U 7.7 U	1.6 J 0.93 J 7.8 U 7.8 U 7.8 U 4.6 J 7.8 U 3.6 J 7.8 U 3.5 J 7.8 U 3.5 J 7.8 U 1.7 J 7.8 U 7.8 U 7.8 U	7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.2 J 7.8 U 8.7 2.3 J 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U	7.6 U 7.6 U 7.6 U 7.6 U 7.6 U 7.6 U 2.1 J 7.6 U 2.2 J 7.6 U 9.8 3.2 J 7.6 U 2.5 J 1.6 J 7.6 U 5.1 J 7.6 U	2.4 J 3.8 J 7.9 U 17. 16. 66. 26. 87. 71. 32. 31. 22. 22. 26. 12. 4.8 J 13. 2.9 J
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## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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CAS #	Parameter	209722 VAL	209722 VAL	210146 VAL	210146 VAL	210146 VAL	210146 VAL
91-57-6 208-96-8 83-32-9 86-73-7 85-01-8 120-12-7 206-44-0 129-00-0 56-55-3 218-01-9 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3 191-24-2	Benzo(a)anthracene	7.8 U 0.87 J 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 6.5 J 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U 7.8 U	7.6 U 1.8 J 7.6 U	20.  8.7  7.5 U  18.  15.  71.  30.  85.  75.  35.  34.  24.  23.  28.  13.  4.8 J  15.	4.3 J 3.6 J 7.7 U 12. 12. 60. 19. 62. 55. 27. 27. 21. 16. 22. 10. 4.1 J 11.	26. J 7.9 J 7.7 U 74. J 75. J 220. J 120. J 300. J 240. J 120. J 110. J 74. J 92. J 97. J 44. J 94. J	360. J 700. J 550. J 300. J 260. J 170. J 230. J 120. J 50. J 100. J
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### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

Page: 4 Time: 14:33

LOU PAH	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB3D-18 LTSSBB3D18 S244969A*9 LTSSBB3D18 07/11/02 07/16/02 07/17/02 Soil UG/KG	LTS-S-BB3E-12 LTSSBB3E12 S243973*3 LTSSBB3E12 06/07/02 06/13/02 06/14/02 Soil UG/KG	LTS-S-BB3E-14 LTSSBB3E14 S243973*4 LTSSBB3E14 06/07/02 06/13/02 06/14/02 Soil UG/KG	LTS-S-BB3E-16 LTSSBB3E16 S243973*5 LTSSBB3E16 06/07/02 06/13/02 06/14/02 Soil UG/KG	LTS-S-BB3F-14 LTSSBB3F14 S244969A*6 LTSSBB3F14 07/11/02 07/16/02 07/17/02 Soil UG/KG	LTS-S-BB3F=16 LTSSBB3F16 S244969A*7 LTSSBB3F16 07/11/02 07/16/02 07/17/02 Soil UG/KG
. CAS #	Parameter	LIBO7 VAL	210127 VAL	210127 VAL	210127 VAL	LIBO7 VAL	LIBO7 VAL
91-57-6 208-96-8 83-32-9 86-73-7 85-01-8 120-12-7 206-44-0 129-00-0 56-55-3 218-01-9 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3 191-24-2	Benzo(a)anthracene	26. 22. 7.7 U 4. J 5.7 J 31. 3.4 J 11. 10. 4.4 J 11. 6.9 J 7.7 U 7.7 U 7.7 U 7.7 U 7.7 U 4.1 J	7.8 6.3 J 7.6 U 15. 21. 96. 23. 98. 62. 6.3 J 9.1 5.2 J 7.6 U 3.4 J 1.7 J 7.6 U 4.4 J	26. 10, 7.9 U 29, 29, 110, 27. 52, 41, 17, 20, 19, 7.9 U 14, 8.3 3, J	9.1 4.7 J 7.6 U 22. 18. 72. 21. 78. 63. 32. 33. 7.6 U 24. 13. 1 3.2 J 12.	7.7 U 1. J 7.7 U 5. J 7.8 50. 14. 42. 36. 19. 23. 25. 7.7 U 17. 7.7 U 11.	13.  8.  7.8. U  39.  40.  170.  67.  230.  140.  80.  76.  57.  49.  67.  28.  7.8  21.  5.4 J

### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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	LOW PAH	SAMPLE ID> ORIGINAL ID> CRIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB3F-18 LTSSBB3F18 S244969A*8 LTSSBB3F18 07/11/02 07/16/02 07/16/02 Soil UG/KG	LTS-S-BB3G-10 LTSSBB3G10 S244969*13 LTSSBB3G10 07/11/02 07/16/02 07/18/02 S01L UG/KG	LTS-S-BB3G-12 LTSSBB3G12 S244969*14 LTSSBB3G12 07/11/02 07/16/02 07/18/02 Soil UG/KG	LTS-S-BB3G-14 LTSSBB3G14 S244969*15 LTSSBB3G14 07/11/02 07/16/02 07/16/02 S011 UG/KG	LTS-C-BB3G-14 LTSCBB3G14 S244969*16 LTSCBB3G14 07/11/02 07/16/02 07/18/02 Soil UG/KG	LTS-S-BB3G-16 LTSSBB3G16 S244969A*1 LTSSBB3G16 07/11/02 07/16/02 07/17/02 Soil UG/KG
	CAS #	Parameter	LIBO7 VAL	LIBOS VAL	LIBOS VAL	LIB08 VAL	LIBO8 VAL	LIBO7 VAL
	91-57-6 208-96-8	Naphthalene 2-Methylnaphthalene Acenaphthylene	7.4 J 28. 7.8 U	12. 4.6 J 8.1 U	.9.5 5.3 J 7.9 U	6.3 J 4.2 J 8. U	4.8 J 5.6 J 7.4 Ų	8.1 4.7 J 7.8 ∪
	86-73-7 85-01-8	Acenaphthene Fluorene Phenanthrene Anthracene	7.8 U 7.8 U 20. 7.8 U	7. 7 11. 68. 14.	13. 14. 55. 14.	24. J 34. J 44. U 24. J	9. j. 8,6 J 19. J 7,1 J	10. 11. 60. 16.
	206-44-0 129-00-0 56-55-3	Fluoranthene Pyrene Benzo(a)anthracene	7.8 U 3.5 J 7.8 U	79. 59. 29.	38. 29. 12.	44. J 35. J 15. J	17. J 14. J 5.5 J	46. 33. 15.
	205-99-2 207-08-9	Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene	6.8 J 7.8 U 7.8 U 7.8 U	33. 28. 22. 28.	14. 10. 8.8	16. J 14. J 9.2 J 13. J	6.7 J 5.6 J 3.3 J 5.2 J	20. 9. 9.9 7.8 U
	193-39-5 53-70-3 191-24-2	Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	7.8 U 7.8 U 3.3 J	20) 14. 12.	7.9 U 7.5 J 5.5 J 3.4 J	15. J 12. J 6.3 J	10. J 7.4 UJ : 2.6 J	15. 7.8 U 9.9 3.6 U
	90-12-0	1-Methyl naphthalene	21.	3.4 J	3.4	2.7 J	4.1	
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# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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	ORIGINAL ID>     LT       AB SAMPLE ID>     S2       LD FROM REPORT>     LT       SAMPLE DATE>     07       DATE EXTRACTED>     07       DATE ANALYZED>     07       VATRIX>     SO       INITS>     UG	TS-S-BB3G-18 TSSBB3G-18 244969A*2 ISSBB3G18 7/11/02 7/16/02 7/17/02 bil b/KG	LTS-S-BB3H-14 LTSSBB3H14 S244969A*3 LTSSBB3H14 07/11/02 07/16/02 07/17/02 Soil UG/KG	LTS-S-BB3H-16 LTSSBB3H16 S244969A*4 LTSSBB3H16 07/11/02 07/16/02 07/17/02 Soil UG/KG	LTS-S-BB3H-18 LTSSBB3H18 S244969A*5 LTSSBB3H18 07/11/02 07/16/02 07/17/02 Soil UG/KG	LTS-S-BB31-14 LTSSB3114 S244969*10 LTSSB3114 07/11/02 07/16/02 07/18/02 Soil UG/KG	LTS-S-BB31-16 LTSSBB3116 -S244969*11 LTSSBB3116 07/11/02 07/16/02 07/18/02 Soil UG/KG
CAS # Parameter	EI	B07 VAL	LIBO7 VAL	LIBO7 VAL	LIBO7 VAL	LIB08 VAL	LIBO8 VAL
91-20-3 Naphthalene 91-57-6 2-Methylnaphthale 208-96-8 Acenaphthylene 83-32-9 Acenaphthene 86-73-7 Fluorene 85-01-8 Phenanthrene		5.2 J 11. 7.6 U 7.6 U 7.6 U	5.7 J 4.3 J 7.8 U 9.4 9.5 42.	81. 20. 7.9 U 120. 140. 650.	15. 26. 7.6 U 3.1 J 3.1 J 25.	2.7 J 4.6 J 7.6 U 7.6 U	7.9 U 7.9 U 7.9 U 7.9 U 7.9 U 7.9 U
120-12-7 Anthracene 206-44-0 Fluoranthene .129-00-0 Pyrene .56-55-3 Benzo(a)anthracen 218-01-9 Chrysene .205-99-2 Benzo(b)fluoranth		7.6 U 1.8 J 3.5 J 7.6 U 8.4	9.7 37. 25. 13. 18.	260. 760. 650. 300. 270.	7.6 U 3.1 J 4.6 J 7.6 U 7.5 J	7.6 U 2.6 J 3.6 J 7.6 U 3.7 J 2.9 J	1.8 J 6.9 J 6.7 J 2.9 J 4.3 J
207-08-9 Benzo(k)fluoranth 50-32-8 Benzo(a)pyrene 193-39-5 Indeno(1,2,3-cd)p 53-70-3 Dibenz(a,h)anthra 191-24-2 Benzo(g,h,i)peryl 90-12-0 1-Methyl naphthal	ene Yrene cene ene	3. J 7.6 U 7.6 U 7.6 U 7.6 U 4.3 J 7.5 J	9.8 7.8 U 14. 11. 7.1 J	230. 180. 260. 95. 57. 96.	3.3 J 4.9 J 7.6 U 7.6 U 4.3 J	7.6 U 7.6 U 7.6 U 7.6 U 7.6 U 2.2 J	2.1 J 3.4 J 7.9 U 7.9 U 3.1 J
70 tz o r weenyt napritnati		1 ml • G	<b>3.4</b>	( <b>C.</b> )	20.	<b>Q</b> (4)	.// <b>/</b>
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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				magazines	Bravo and Cr	narile Soll Sa	яшртев			
	LOW PAH		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTSSBB3118 \$244969*12 LTSSBB3118 07/11/02 07/16/02 07/18/02 Soil	LTS-5-BB3J-10 LTSSBB3J10 S244969*6 LTSSBB3J10 07/11/02 07/16/02 07/17/02 Soil UG/KG	LTS-C-BB3J-10 LTSCBB3J10 S244969*7 LTSCBB3J10 07/11/02 07/16/02 07/18/02 Soil UG/KG	LTS-S-BB3J-12 LTSSBB3J12 S244969*8 LTSSBB3J12 07/11/02 07/16/02 07/18/02 Soil UG/KG	LTS-S-BB3J-14 LTSSBB3J14 S244969*9 LTSSBB3J14 07/11/02 07/16/02 07/18/02 Soil UG/KG	LTS-S-BB3K-10 LTSSBB3K10 S244969*3 LTSSBB3K10 07/11/02 07/16/02 07/17/02 Soil UG/KG	
	CAS	# Parameter		LIBO8 VAL	LIB08 VAL	LIB08 VAL	L1808 VAL	LIBO8 VAL	LIBOS VAL	
	91-57- 208-96- 83-32- 86-73- 85-01- 120-12- 206-44- 129-00- 56-55- 218-01- 205-99- 207-08-9 50-32-8 193-39-5 53-70-3	Naphthalene 2-Methylnaphth Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Pyrene Benzo(a)anthra Chrysene Benzo(b)fluora Benzo(b)fluora Benzo(a)pyrene Indeno(1,2,3-c) Dibenz(a,h)antl Benzo(g,h,i)pe 1-Methyl naphtl	cene nthene nthene d)pyrene hracene rylene	5.8 J 12. 7.6 U 7.6 U 2.3 J 17. 3.2 J 12. 9.8 5.7 J 7.4 J 5.2 J 4. J 7.6 U 11	2. J 2.5 J 7.9 U 7.9 UJ 2.1 J 12. J 2.6 J 15. J 12. J 6.7 J 7.6 J 8.1 J 5.1 J 6.9 J 11. J 7.9 UJ 2.9 J	8. J 4.8 J 8.1 U 13. J 19. J 69. J 23. J 120. J 94. J 39. J 42. J 29. J 28. J 34. J 24. J 15. J 18. J	7.9 U 7.9 U 7.9 U 7.9 U 7.9 U 7.9 U 4.8 J 7.9 U 3. J 3.4 J 7.9 U 3.5 J 7.9 U 7.9 U 7.9 U 7.9 U 7.9 U 7.9 U 7.9 U 7.9 U 7.9 U	7.7 U 7.7 U 7.7 U 7.7 U 7.7 U 7.7 U 1.5 J 7.7 U 7.7 U 3.6 J 7.7 U 3.6 J 7.7 U 4.6 J 3.1 U 7.7 U 7.7 U 7.7 U 7.7 U 7.7 U 7.7 U 7.7 U 7.7 U 7.7 U	3.2 J 1.2 J 8.3 U 8.3 U 2.3 J 12. 2.7 J 16. 10. 6.7 J 7.5 J 5. J 5.9 J 8.3 U 8.3 U 8.3 U 8.3 U	
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### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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LON	PAH	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB3K-12 LTSSBB3K12 S244969*4 LTSSBB3K12 07/11/02 07/16/02 07/17/02 Soil UG/KG	LTS-S-BB3K-14 LTSSBB3K14 \$244969*5 LTSSBB3K14 07/11/02 07/16/02 07/17/02 Soil UG/KG	LTS-S-BC02-12 LTSSBC0212 S242909*13 LTSSBC0212 04/26/02 05/01/02 05/02/02 Soil UG/KG	LTS-S-BC04-22 LTSSBC0422 S242909*11 LTSSBC0422 04/26/02 05/01/02 05/02/02 Soil UG/KG	LTS-C-BC04-22 LTSCBC0422 S242909*12 LTSCBC0422 04/26/02 05/01/02 05/02/02 Soil UG/KG	
	CAS #	Parameter	LIBO8 VAL	LIB08 VAL	209315 VAL	209315 VAL	209315 VAL	
	91-57-6 208-96-8 83-32-9 86-73-7 85-01-8 120-12-7 206-44-0 129-00-0 56-55-3 218-01-9 205-99-2 207-08-9 50-32-8 193-39-5 53-70-3	Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene	11. 3.5 J 7.8 U 10. 10. 14. 99. 24. 150. 120. 70. 69. 60. 53. 62. 25.	7.6 U 7.6 U	2.5 J 3.5 J 7.8 U 7.8 U 1.6 J 9.6 1.6 J 5.4 J 5.7 J 1.9 J 4.2 J 2. J 1.8 J 7.8 U 7.8 U 7.8 U	3.5 J 3.7 J 7.6 U 3. J 3.8 J 24. 7. J 21. 23. 10. 12. 7.2 J 8.2 9.2 11. 12. J 7.4 J	4.6 J 4.3 J 8. U 4.1 J 4.6 J 32. 9.7 31. 33. 14. 17. 12. 11. 13. 11. 8. UJ	
		Benzo(g,h,i)perylene 1-Methyl naphthalene	18. 2.4	2. J 7.6 U	7.8 U 2.9 J	2.1 3	7.8 J 2.9 J	

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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METAL		SAMPLE ID>	LTS-C-BB01-18	LTS-S-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14
HCTAL:		ORIGINAL ID>	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314
1		LAB SAMPLE ID>	209315-010	209315-009	209315-007	209315-008	209315-013	209315-014
		<ul> <li>200 p. 10 p</li></ul>						LTSSBB0314
		ID FROM REPORT>	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	
		SAMPLE DATE>	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02
	5 (a)	DATE EXTRACTED>	05/06/02	05/06/02	05/06/02	05/06/02	05/06/02	05/06/02
		DATE ANALYZED>	05/07/02	05/07/02	05/07/02	05/07/02	05/07/02	05/07/02
		MATRIX>	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS>	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL
	A Normal State State State							
7429-90-5			4800.	7300.	8360.	8740.	11600.	10500.
7440-36-0	Antimony	하는 이상 없는 것들이 없다.	1.5 UJ	1.7 UJ	1.4 UJ	1.5 ປປ	1.7 UJ	1.6 UJ
7440-38-2	Arsenic		7.	6.5	7.8	7.9	7.8	8.2
7440-39-3	Barium	그는 남병장보니는 보다 가장	27.4 J	34.7 J	36.9 J	39.2 J	65.3 J	65.2 J
	Beryllium		0.32 J	0.38 J	0.52 J	0.49 J	0.6 J	0.57 J
7440-43-9	1 '		5 7 1 1005 B00000 x 1 1 x 4		Table in a particular transference delegator a interpretar private particular	NATIONAL IN THE SECRET OF THE SECRET SECTION OF THE SEC	0.26 J	0.13 J
		· · · · · · · · · · · · · · · · · · ·	0.078 U	the programme of the control of the	Provide a respect of the part of the respect of the respect of	0.077 U		
7440-70-2			85900.	77500.	74900.	72100.	48600.	45800.
7440-47-3			10.1	14.7	16.8	17.	19.3	18.3
7440-48-4		•	5.1 J	9.5 J	9.5	10.4	11.	10.8
7440-50-8	Copper		22.1	22,6	21.	21.8	22.9	21.5
7439-89-6	Iron		18700.	18100.	23500.	19700.	21700.	24500.
7439-92-1			18. J	13. J	13.7 J	13.2 J	15.5 J	12.5 J
7439-95-4		ing a file was after an accepting	47000.	39600.	39700.	37100.	26700.	25700.
7439-96-5			1915 to the colors of the colors	10. A. P. COSTOTO 000 000 000 A CARDAM CART STATE (1997).	lungangagagagagagagagagagaga, kawa kisisisisisisisis	per processed in the minimum processes with the time to the process of the contract of the con	5.5 Z MAGG 505000000 (5 x 1 1 1	27 A. J. P. 1980 Science (1997) 11 (1997) 11 (1997)
			832.	637.	641.	619.	640.	802.
7439-97-6			0.058 U	0.058 U	0.055 U	0.06 U	0.058 U	0.058 U
7440-02-0		arte description of the Gradie	16.1 J	22.7 J	24.8 J	25.1 J	25.9 J	25.9 J
7440-09-7	Potassium		1660. J	2160. J	2530. J	2700. J	25 <b>3</b> 0. J	2110. J
7782-49-2	Selenium		0.28 J	0.24 UJ	0.26 J	0.23 UJ	0.27 J	0.22 UJ
7440-22-4			0.47 U	0.52 U	0.45 U	0.46 U	0.5 U	0.51 U
7440-23-5			295. J	313. J	378. J	345. J	308. J	333. J
7440-28-0		a udilarin eti da 1901 atri estuari e deutitibar arabustat.	And the second s	portion control and the first production and control of the contro	*****************	a contract, as contracted the contract of the contract and a		and the second control of the second control
4 22 1	of the South Application of the Con-	india e la fare e la fector	1.6 J	2.8	2.	2.1	2.2	1.7 J
7440-62-2		그들도 그렇게 하는 항상이 취해	16.	20.1	25.3	23.3	29.3	28,5
7440-66-6	Zinc		39.5 · J	42.6 J	· 51.4 J	51.7 J	74.3 J	53.3 J
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### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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,	METAL	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> MATRIX> UNITS>	LTS-5-8804-17 LTSSB80417 209315-011 LTSSB80417 04/26/02 05/06/02 05/07/02 Soil MG/KG	LTS-S-BB04-25 LTSSBB0425 209315-012 LTSSBB0425 04/26/02 05/06/02 05/07/02 Soil MG/KG	LTS-S-BB3B-12 LTSSBB3B12 210127-003 LTSSBB3B12 06/07/02 06/10/02 06/13/02 Soil MG/KG	LTS-S-BB3B-14 LTSSBB3B14 210127-004 LTSSBB3B14 06/07/02 06/10/02 06/13/02 Soil MG/KG	LTS-S-BB3B-16 LTSSBB3B16 210127-005 LTSSBB3B16 06/07/02 06/10/02 06/13/02 Soil MG/KG	LTS-S-BB3C-12 LTSSBB3C12 210127-006 LTSSBB3C12 06/07/02 06/10/02 06/13/02 Soil MG/KG
	CAS #	Parameter	209315 VAL	209315 VAL	210127 VAL	210127 VAL	210127 VAL	210127 VAL
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4	Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	8640. 1.7 UJ 8.1 44.7 J 0.47 J 0.092 J 69300. 16.3 9.6 J	9610. 1.4 UJ 6.7 42.1 J 0.53 J 0.075 U 69300. 18:5	10400. 1.6 UJ 9.3 J 61.6 0.51 J 0.18 J 52900. 17.2 10.7	9310. 1.7 UJ 5.7 J 40.7 J 0.43 J 0.13 J 66400. 16.4 9.8 J	7980. 1,6 UJ 8.5 J 39.1 J 0.37 J 0.082 U 70500. 15. 9.4 J	9830. 1.5 UJ 22.3 J 65.8 0.48 J 0.18 J 55200. 17.
	7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-97-6	Copper Iron Lead Magnesium Manganese Mercury	22:9 20100. 14:5 J 36400. 646. 0.058 U	22:3 19600. 13:8 35100. 557. 0.057 Ü	29.9 23600. 16.6 J 31100. 643. 0.058 U	23.8 18300. 12.2 J 40000. 626. 0.058 U	25. 19400. 14-3 J 40200. 593. 0.057 U	23.9 33400. 13.8 35300. 808. 0.059 U
	7440-02-0 7440-09-7 7782-49-2 7440-22-4 7440-23-5 7440-28-0 7440-62-2	Potassium Selenium Silver Sodium Thallium	23.5 J 2310. J 0.23 J 0.52 U 297. J 1.5 J 23.4	23.9 J 3110. J 0.24 UJ 0.45 U 345. J 1.8 J 24.2	26.4 2150. J 0.15 UJ 0.5 U 274. J 0.19 UJ 24.1	22.6 2990. J 0.28 J 0.52 U 245. J 0.23 UJ	23.1 2520. J 0.17 UJ 0.49 U 240. J 0.21 UJ 17.2	32.8 2780. J 0.31 J 0.48 U 295. J 0.22 UJ 21.3
	7440-66-6		47.9 J	44.4 J	60.9	45.	46.9	58.
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## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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	METAL	SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT SAMPLE DATE DATE EXTRACTED DATE ANALYZED MATRIX UNITS	> LTSSBB3C14 > 210127-007 > LTSSBB3C14 > 06/07/02 > 06/10/02 > 06/13/02 > Soil	LTS-S-BB3C-16 LTSSBB3C16 210127-008 LTSSBB3C16 06/07/02 06/10/02 06/13/02 Soil MG/KG	LTS-S-BB3D-12 LTSSBB3D12 210146-001 LTSSBB3D12 06/07/02 06/12/02 06/18/02 Soil MG/KG	LTS-S-BB3D-14 LTSSBB3D14 210146-002 LTSSBB3D14 06/07/02 06/12/02 06/18/02 Soil MG/KG	LTS-C-BB3D-16 LTSCBB3D16 210146-004 LTSCBB3D16 06/07/02 06/12/02 06/18/02 Soil MG/KG	LTS-S-BB3D-16 LTSSBB3D16 210146-003 LTSSBB3D16 06/07/02 06/12/02 06/18/02 Soil MG/KG
	CAS #	Parameter	210127 VAL	210127 VAL	210146 VAL	210146 VAL	210146 VAL	210146 VAL
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	Antimony Arsenic Barium Beryllium Cadmium	8400. 1.6 UJ 6.9 J 33.8 J 0.38 J 0.11 J	8.9 J 54.6 0.48 J 0.12 J	10900. 11.1 J 9.6 83.4 0.61 J 0.058 UJ	9290. 0.54 UU 7.8 60.6 0.53 J 0.056 UU	9740. 0.48 UJ 7.7 56.6 0.53 J 0.18 J	10300. 0,48 UJ 6.9 61.9 0.54 J 0,049 UJ
	7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4	Chromium Cobalt Copper Iron Lead	66800. 15.7 8.5 J 23.2 18600. 10:8 J 39400.	55100. 17.1 10.4 J 28.7 22100. 13.6 J 32900.	53600. 18.1 14.2 J 24.1 24800. 16.6 J 27900.	63500, 16.6 11. J 23.3 22400. 12.2 J 34100.	64700. 16.7. 9.9. J 26.3 23200. 15.3 J 35200.	56000. 17.3 11.2 J 22.8 21500.
		Manganese Mercury Nickel Potassium	540. 0.058 U 24.1 2720. J 0.19 UJ	633. 0.057 U 25.6 2390. J 0.16 J	27900. 1000. 0.059 U 26.6 2110. J 0.36 J	789. 0.058 U 25.2 2300. J 0.4 J	784. 0.059 U 23.7 2100. J 0.41 J	30800. 647. 0.058 U 25.2 2260. J
	7440-22-4 7440-23-5 7440-28-0 7440-62-2 7440-66-6	Silver Sodium Thallium Vanadium	0.51 U 216. U 0.25 J 17.8 45.5	0.53 U 210. J 0.23 J 21.9 52.5	0.23 U 142. J 1.8 J 27.8 J 62.2 J	0.22 U 168. U 1.8 J 23.7 J 48.6 J	0.2 U 171. J 1.2 J 24. J 96.5 J	0.19 U 154. J 1.3 J 23.7 J 55.6 J
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## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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METÄL	SAMPLE ID	LTSSBB3D18 210701-028 LTSSBB3D18 07/11/02 07/15/02 07/17/02 Soil	LTS-S-BB3E-12 LTSSBB3E12 210127-009 LTSSBB3E12 06/07/02 06/13/02 Soil MG/KG	LTS-S-BB3E-14 LTSSBB3E14 210127-010 LTSSBB3E14 06/07/02 06/10/02 06/13/02 Soil MG/KG	LTS-S-BB3E-16 LTSSBB3E16 210127-011 LTSSBB3E16 06/07/02 06/10/02 06/13/02 Soil MG/KG	LTS-S-BB3F-14 LTSSBB3F14 210701-025 LTSSBB3F14 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3F-16 . LTSSBB3F16 . 210701-026 . LTSSBB3F16 . 07/11/02 . 07/15/02 . 07/17/02 . Soil . MG/KG
CAS # Parame	eter	210701 VAL	210127 VAL	210127 VAL	210127 VAL	210701 VAL	210701 VAL
7429-90-5 Alumir 7440-36-0 Antimo 7440-38-2 Arsen 7440-39-3 Bariur	ony ic.	6190. J 194. ÚJ 8.4 J 27.7 J	11100. 1.7 UJ 6.1 J 67.	9530. 1.7 UJ 7.2 J 51.4	9750. 1.7 UJ 6.9 J 55.3	7590. J 1.6 UJ 11.7 J 73.8	8750. J 1.7 UJ 7.2 J 50.1
7440-41-7 Beryll 7440-43-9 Cadmit 7440-70-2 Catcit 7440-47-3 Chromi	um um um	0.32 J 0.074 U 75200.	0.53 J 0.16 J 36400. 18.	0.44 J 0.12 J 45500. 15.9	0.46 J 0.14 J 59400. 16.6	0.45 J 0.085 U 69600. 15.	0.46 J 0.086 U 57300. 15.7
7440-48-4 Cobalt 7440-50-8 Copper 7439-89-6 Iron 7439-92-1 Lead	k terretakan perjebahan terdapan kelalan dan penjebahan berapa dan berapa berapa berapa berapa berapa berapa b Berapa berapa  8. J 19.7 19200.	9. J 24.3 19100. 12.7 J	9.6 J 22.3 20100. 12.3 J	10.1 J 24. 24. 20200. 13.2 J	10.4 J 23.8 21100. 14.3 J	9.9 J 23.7 19400. 12.7 J	
7439-95-4 Magnes 7439-96-5 Mangar 7439-97-6 Mercur 7440-02-0 Nickel	iese Y	39900. 599. 0.057 U 19.7 J	20200. 516. 0.059 U 22.2	27300. 557. 0.056 U 23.1	34800. 686. 0.057 U 24.2	38100. 703. 0.056 U 23.9 J	32300. 669. 0.058 U 24.5 J
7440-09-7 Potass 7782-49-2 Seteni 7440-22-4 Silver 7440-23-5 Sodium		1810. J 1.1 U 0.44 U 341. J	1700. J 0.23 UJ 0.52 U 252. J	1960. J 0.16. UJ ∴ 0.52 U 171. U	2350. J 0.21 UJ 0.53 U 237. J	2220. J 1.4 U 0.51 U 346. J	2000. J 1.3 U 0.52 U, 358. J
7440-28-0 Thalli 7440-62-2 Vanadi 7440-66-6 Zinc		0.37 UJ 17.6 36.4 J	0.29 UJ 23.2 58.8	0.2 UJ 20.8 49.9	0.26 UJ 21.4 53.9	0.33 UJ 22:4 48.7 J	0.37 UJ 22.7 46.2 J

### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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METAL		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> MATRIX> UNITS>	210701-027	LTS-S-BB3G-10 LTSSBB3G10 210701-014 LTSSBB3G10 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3G-12 LTSSBB3G12 210701-015 LTSSBB3G12 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3G-14 LTSSBB3G14 210701-016 LTSSBB3G14 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-C-BB3G-14 LTSCBB3G14 210701-017 LTSCBB3G14 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3G-16 LTSSBB3G16 210701-018 LTSSBB3G16 07/11/02 07/15/02 07/17/02 Soil MG/KG
CAS:#	Parameter		210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-97-6 7440-09-7 7782-49-2 7440-23-5	Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium		6430. J 1.6 UJ 6.7 J 31.1 J 0.33 J 0.082 U 73900. 12.8 9.2 J 21.5 16900. 10.8 J 38800. 595. 0.057 U 22.1 J 1820. J 0.35 U 0.49 U 296. J	10700. J 1.5 UJ 7.3 J 57.5 0.53 J 0.12 J 51800. 17.6. 9.5 J 23.9 20900. 15. J 29500. 636. 0.06 U 24.2 J 2400. J 0.94 U 0.47 U 289. J	. 10600. J 1.6 UJ 7.9 J 47.3 0.54 J 0.15 J 57600. 17.8 9.9 J 25. 21900. 13.3 J 33600. 673. 0.057 U 25.6 J 2760. J 1.5 U 0.49 U 292. J	9270. J 1.6 UJ 7.8 J 40.7 J 0.48 J 0.084 U 62400. 16.2 9.9 J 24. 19500. 12.5 J 35800. 693. 0.058 U 24.2 J 2430. J 1. U 0.5 U 323. J	10600. J 1,6 UJ 6.9 J 61.4 0.56 J 0.085 U 43100. 17. 9.1 J 25.3 20700. 12.6 J 24700. 487 0.057 U 23. J 1690. J 0.94 U 0.51 U	9260. J 1.5 UJ 8. J 45.5 0.48 J 0.086 J 62100. 16.3 9.8 J 25.4 20800. 12.6 J 36100. 635. 0.058 U 24.5 J 2480. J 0.94 U 0.48 U 330. J
7440-28-0 7440-62-2	Vanadium		0.38 UJ 18.4	1.1 UJ 26.6	1.2 UJ 25.7	1.2 UJ 23.	1.2 UJ 24.1	1.2 UJ 24.1
7440-66-6	Zinc		37.7 J	54.8 J	52. J	46.6 J	50.2 J	53.1 J

## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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METAL	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTSSBB3G18 210701-019 LTSSBB3G18 07/11/02 07/15/02 07/17/02 Soil	LTS-S-BB3H-14 LTSSBB3H14 210701-020 LTSSBB3H14 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3H-16 LTSSBB3H16 210701-021 LTSSBB3H16 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-883H-18 LTSS8B3H18 210701-022 LTSSBB3H18 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3I-14 LTSSBB3114 210701-011 LTSSBB3114 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3]-16 LTSSBB3116 210701-012 LTSSBB3116 07/11/02 07/15/02 07/17/02 Soil MG/KG
CAS # Parameter		210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
7429-90-5 Aluminum 7440-36-0 Antimony 7440-38-2 Arsenic 7440-39-3 Barium		7650. J 1.7 UJ 7.9 J 33.4 J	11000. J 1.6 UJ 8.7 J 64.6	8900. J 1.7 UJ 7.1 J 53.	7470. J 1.5 UJ 7. J 35.6 J	6450. J 1.7 UJ 6.3 J 50.9	7090. J 1,6 UJ 7. J 30:3 J
7440-41-7 Beryllium 7440-43-9 Cadmium 7440-70-2 Calcium 7440-47-3 Chromium		0.4 J 0.086 U 74900.	0.55 J 0.09 J 50400.	0.45 J 0.096 J 57400.	0.4 J 0.08 U 78200.	0.35 J 0.21 J 79100. 13.	0.37 J 0.085 U 71400. 13.3
7440-48-4 Cobalt 7440-50-8 Copper 7439-89-6 Iron 7439-92-1 Lead		10.7 J 22.1 18100.	14.1 24.7 21400.	9.8 J 23.3 20100. 14.9 J	9.1 J 22.6 17200.	8.6 J 21.2 16900. 10.6 J	8.8 J 22.8 17400.
7439-95-4 Magnesium 7439-96-5 Manganese 7439-97-6 Mercury		41000. 648. 0.057 U	29500. 602. 0.058 U	33100. 653. 0.058 U	35500. 600. 0.057 U	44500. 821. . 0.058 U	38900. 604. 0,058 U
7440-02-0 Nicket 7440-09-7 Potassium 7782-49-2 Selenium 7440-22-4 Silver		25. J 2460. J 0.93 U 0.51 U	28.9 J - 2440. J - 0.73 U - 0.51 U	24. J 1720. J 1.1 U 0.54 U	21.5 J 2270. J 0.91 U 0.48 U	21.5 J 1870. J 0.67 U 0.53 U	22.8 J 2160. J 0.56 U 0.51 U
7440-23-5 Sodium 7440-28-0 Thallium 7440-62-2 Vanadium 7440-66-6 Zinc		334. J 1.2 UJ 20.3 43.8 J	292. J 1.2 UJ 27.1 54.1 J	336. J 1.3 UJ 22.6 50.8 J	326. J 1.2 UJ 19.7 37.2 J	309, J .1.3 UJ 18.8 59. J	344. J 1.7 J 1995. 38.6 J
7440-60-6 Zinc		43.0 J	34.1 3	30.0 J	37.2 J	39.	30.0
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### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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METAL		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> MATRIX> UNITS>	LTSSBB3118 210701-013 LTSSBB3118 07/11/02 07/15/02 07/17/02 Soil	LTS-S-BB3J-10 LTSSBB3J10 210701-007 LTSSBB3J10 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-C-BB3J-10 LTSCBB3J10 210701-010 LTSCBB3J10 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3J-12 LTSSBB3J12 210701-008 LTSSBB3J12 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3J-14 LTSSBB3J14 210701-009 LTSSBB3J14 07/11/02 07/15/02 07/17/02 Soil MG/KG	LTS-S-BB3K-10 LTSSBB3K10 210701-004 LTSSBB3K10 07/11/02 07/15/02 07/17/02 Soil MG/KG
- CAS #	# Parameter		210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-48-4 7440-50-8 7439-92-1 7439-96-5 7439-97-6 7440-02-0 7440-02-4	Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury, Nickel Potassium Selenium Silver Sodium Thallium		7410. J 1.6 UJ 6.9 J 33.1 J 0.39 J 0.088 J 72200. 14. 9.4 J 7 24.8 17500. 11.3 J 39200. 608. 0.057 U 23.2 J 2350. J 0.49 U 0.5 U 367. J 1.2 UJ 20.7	7410. J 1.5 UJ 7.4 J 42.8 0.4 J 0.077 U 63800. 14. 9. J 21.9 19100. 11.6 J 34800. 710. 0.056 U 22.1 J 1890. J 0.86 U 0.46 U 303. J 1.1 UJ 20.1	10600. J 1.5 UJ 7.8 J 55. 0.52 J 0.13 J 50800. 17.6 9.4 J 24.6 22000. 13.5 J 30100. 553. 0.058 U 24.7 J 2710. J 0.75 U 0.48 U 316. J 1.2 UJ 25.6	10500. J 1.7 UJ 8.6 J 46.1 0.54 J 0.13 J 61200. 18. 8.9 J 24.7 21300. 12.1 J 35500. 604. 0.059 U 24.3 J 2910. J 0.9 U 0.52 U 316. J 1.3 UJ 25.1	8440. J 1.6 UJ 7.1 J 31.1 J 0.44 J 0.085 U 66200. 15.5 9. J 22.2 17900. 10.1 J 38100. 578. 0.057 U 24.3 J 2620. J 1. U 0.51 U 327. J 1.2 UJ 21.2	9030. J 1.6 UJ 2.9 J 31. J 0.45 J 0.16 J 65600. 16.1 9.2 J 222.6 11600. 13.4 J 37900. 523. 0.059 U 24.2 J 2790. J 0.94 U 0.51 U 255. J 1.2 UJ 21.3
7440-66-6	Zinc	**	40.2 J	40.1 J	56.2 J	49. J	63.3 J	70. J

## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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METAL		ORIC LAB ID I SAMF DATE DATE MATE	SAMPLE FROM REF PLE DATE E EXTRAC E ANALYZ RIX	>> 1D> CORT>> TED> E>	LTS-S-BE LTSSBB3K 210701-0 LTSSBB3K 07/11/02 07/15/02 07/17/02 Soil MG/KG	(12 )05 (12	LTS-S-BB LTSSBB3K 210701-00 LTSSBB3K 07/11/02 07/15/02 07/17/02 Soil MG/KG	14 06 14	LTS-S-BC02- LTSSBC0212 209315-017 LTSSBC0212 04/26/02 05/06/02 05/07/02 Soil MG/KG	12	LTS-C-BC04- LTSCBC0422 209315-016 LTSCBC0422 04/26/02 05/06/02 05/07/02 Soil MG/KG	22	LTS-S-BC042 209315-01 LTSSBC042 04/26/02 05/06/02 05/07/02 Soil MG/KG	2 5		
CAS #	Parameter				210701	VAL	210701	VAL	209315	VAL	209315	VAL	209315	VAL	4660. <u>(2. 124.</u> 2	<u>, salar iti sanan jabas sa sa</u>
7429-90-5 7440-36-0	Antimony			agi pi sigi	2222 9 1 1 1 1 1	). J .6 UJ	6570 1	.4 UJ	9490. 1.7 7.4	UJ	4220. 1.7 9.1	ÜJ	3100. 1. 5.	4 UJ		gmi sødder
7440-38-2 7440-39-3 7440-41-7	Barium				30		27 0	.1 J .34 J	51.1 0.5	j j	15.8 0.19		12. 0.	8 J 16 J		
7440-43-9 7440-70-2 7440-47-3	Calcium				57900	).11 J ). 2	70100 73	reduced into a military	0.12 82700. 16.4	J	90600. 8.9	8 U	1. 100000. 7.			and a shared for the first of
7440-48-4 7440-50-8	Cobalt Copper				11 27	.4 '.2	9. 21	.3 .5	9.5 20.6 19400.	J	7.3 29.2 20300.	J	6. 19. 20800.		at se a le e	
7439-89-6 7439-92-1 7439-95-4	Lead				36300	'.4 J ).	38000	. J	12.1 29300.	J	8.4 47200.	j	8. 54000.			
7439-96-5 7439-97-6 7440-02-0	Mercury				ka sa arawa ani	).059 U '.5 J	599 0 21	.056 U	611. 0.058 23.2	3 U	610. 0.05 19.4	7 U J	14,	058 U 1 J	i Hete	
7440-09-7 7782-49-2 7440-22-4	Potassium Selenium		.1 s 1	•		. J .1 U .5 U	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. J .49 U .44 U	1970. 0.31 0.53	J J U	1020. 0.23 0.53		836. 0. 0.		e de	
7440-23-5 7440-28-0	Sodium . Thallium			•,	294 1		281 1 19	.1 UJ	249. 2. 24.2	J J	466. 2.1 19.5	J J	318. 1. 17.			
7440-62-2 7440-66-6		:				5 J	38.		52.4	J	51.8	J	282.	J		
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LIBERTYVILLE TRAINING SITE DATALCP3 08/23/02

6A & 7 FURTHER INVESTIGATION
Magazines Bravo and Charlie Soil Samples

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	PCB		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX>	LTSCBB0118 209315-010 LTSCBB0118 04/26/02 04/29/02 05/09/02 Soil	LTS-S-BB01-18 LTSSBB0118 209315-009 LTSSBB0118 04/26/02 04/29/02 05/09/02 Soil	LTS-S-BB02-18 LTSSBB0218 209315-007 LTSSBB0218 04/26/02 04/29/02 05/09/02 Soil UG/KG	LTS-S-BB02-25 LTSSBB0225 209315-008 LTSSBB0225 04/26/02 04/29/02 05/09/02 Soil UG/KG	LTS-S-BB03-05 LTSSBB0305 209315-013 LTSSBB0305 04/26/02 04/29/02 05/09/02 Soil UG/KG	LTS-S-BB03-14 LTSSBB0314 209315-014 LTSSBB0314 04/26/02 04/29/02 05/09/02 Soil UG/KG
			UNITS>	UG/KG 209315 VAL	UG/KG 209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL
	7 I. Januari	Parameter						38. · ∪	38. U
	11104-28-2 11141-16-5 53469-21-9	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242		38. U 78. U 38. U 38. U	38. U 78. U 38. U 38. U	36. U 74. U 36. U	80. U 39. Ú 39. U	76. U 38. U	36. U 77. U 38. U 38. U 38. U
		Aroclor-1248 Aroclor-1254		38. ປ 38. ປ	38. U 38. U	36. U 36. U	39. U 39. U	38. U	38. U
		Aroclor-1260		38. U	38. U	36. U	39. U	38. U	<b>38.</b> U
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# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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PCB	Parameter	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	209315-011 LTSSB80417 04/26/02 04/29/02 05/09/02 Soil	LTS-S-BB04-25 LTSSBB04-25 209315-012 LTSSBB0425 04/26/02 04/29/02 05/09/02 Soil UG/KG	LTS-S-BB3B-12 LTSSBB3B12 210127-003 LTSSBB3B12 06/07/02 06/13/02 06/19/02 Soil UG/KG	LTS-S-BB3B-14 LTSSBB3B14 210127-004 LTSSBB3B14 06/07/02 06/13/02 06/19/02 Soil UG/KG	LTS-S-BB3B-16 LTSSBB3B16 210127-005 LTSSBB3B16 06/07/02 06/13/02 06/19/02 Soil UG/KG	LTS-S-BB3C-12 LTSSBB3C12 210127-006 LTSSBB3C12 06/07/02 06/13/02 06/19/02 Soil UG/KG
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroctor-1016 Aroctor-1221 Aroctor-1232 Aroctor-1242 Aroctor-1248 Aroctor-1254 Aroctor-1260		38. U 76: U 38. U 38. U 38. U 38. U 38. U 38. U	37. U 76. U 37. U 37. U 37. U 37. U 37. U 37. U 37. U 37. U 37. U	38. U 77. U 38. U 38. U 38. U 38. U 38. U 38. U	38. U 76. U 38. U 38. U 38. U 38. U 38. U 38. U	37. U 75. U 37. U 37. U 37. U 37. U 37. U 37. U	39. U 79. U 39. U 39. U 39. U 39. U 39. U

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION ines Bravo and Charlie Soil Samples

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Magazines Bravo and Charlie Soil Samples PCB SAMPLE ID ----> LTS-S-BB3G-18 LTS-S-BB3H-14 LTS-S-BB3H-16 LTS-S-BB3H-18 LTS-S-BB31-14 LTS-S-BB31-16 LTSSBB3H14 LTSSBB3116 ORIGINAL ID ----> LTSSBB3G18 LTSSBB3H16 LTSSBB3H18 LTSSBB3114 LAB SAMPLE ID ---> 210701-019 210701-020 210701-021 210701-022 210701-011 210701-012 ID FROM REPORT --> LTSSBB3G18 LTSSBB3H14 LTSSBB3H16 LTSSBB3H18 LTSSBB3I14 LTSSBB3116 SAMPLE DATE ----> 07/11/02 07/11/02 07/11/02 07/11/02 07/11/02 07/11/02 07/16/02 07/16/02 07/16/02 07/16/02 07/16/02 07/16/02 DATE EXTRACTED --> DATE ANALYZED ---> 07/19/02 07/19/02 07/19/02 07/18/02 07/19/02 07/19/02 MATRIX ----> Soil Soil Soil Soil Soil Soil UNITS -----> UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG CAS # Parameter: 210701 210701 210701 210701 210701 210701 VAL VAL VAL VAL VAL VAL 12674-11-2 Aroctor-1016 38. U 38. U 37. 37. U 38. 38. П Ü 11104-28-2 Aroctor-1221 76. 78. 76. U. 75. ្ឋា 77. Ü 77. 11141-16-5 Aroclor-1232 38. 38. 37. 37. 38. 38. 53469-21-9 Aroclor-1242 Ü 38. 38. 37. 37. 38. 12672-29-6 Aroctor-1248 38. 38. 38. 38. 37. 37. 11097-69-1 Aroclor-1254 38. 37. 37. 38. U 38. Ü 11096-82-5 Aroclor-1260 38. 38. 37. 37. 38. 38.

LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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	PCB				SAMPLE ID ORIGINAL LAB SAMPLI ID FROM RI SAMPLE DA DATE EXTR	ID> E ID> EPORT> TE> ACTED>	LTSSBB31 210701-0 LTSSBB3 07/11/02 07/16/02	118 013 118 2 2	1 1 0	TS-S-BB3J TSSBB3J10 210701-007 TSSBB3J10 07/11/02 07/16/02		LTSCBB. 210701 LTSCBB. 07/11/ 07/16/	-010 3J10 02 02		LTS-S-BB LTSSBB3J 210701-0 LTSSBB3J 07/11/02 07/16/02 07/19/02	12 08 12	LTS-S-B LTSSBB3 210701- LTSSBB3 07/11/0 07/16/0	J14 009 J14 I2 I2	LTSSB 21070	1-004 B3K10 /02 /02	
					DATE ANAL MATRIX UNITS	>	07/19/02   Soil   UG/KG	2	l s	07/19/02 Soil JG/KG		07/19/   Soil   UG/KG	UZ		Soil UG/KG		Soil UG/KG		Soil UG/KG		
-	CAS	# 1	Parameter		U <b>n</b> 113		210701	VAI		210701	VAL	210701		VAL	210701	VAL	210701	VAL	21070	1	VAL
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## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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РСВ		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-5-8B3K-12 LTSSBB3K12 210701-005 LTSSBB3K12 07/11/02 07/16/02 07/19/02 Soil UG/KG	LTS-S-BB3K-14 LTSSBB3K14 210701-006 LTSSBB3K14 07/11/02 07/16/02 07/19/02 Soil UG/KG	LTS-S-BC02-12 LTSSBC0212 209315-017 LTSSBC0212 04/26/02 04/29/02 05/09/02 Soil UG/KG	LTS-C-BC04-22 LTSCBC0422 209315-016 LTSCBC0422 04/26/02 04/29/02 05/09/02 Soil UG/KG	LTS-S-BC04-22 LTSSBC0422 209315-015 LTSSBC0422 04/26/02 04/29/02 05/09/02 Soil UG/KG	
CAS #	Parameter .		210701 VAL	210701 VAL	209315 VAL	209315 VAL	209315 VAL	
11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254		39. U 78. U 39. U 39. U 39. U 39. U	36. U 74. U 36. U 36. U 36. U 36. U	38. U 77. U 38. U 38. U 38. U 38. U	37. U 76. U 37. U 37. U 37. U 37. U	37. U 76. U 37. U 37. U 37. U 37. U	
11096-82-5	Aroclor-1260		39. U	36. U	38. U	37. U	37. U	

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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PH			Ma <sub>0</sub>	gazines Bravo and	Charlie Soil S	Samples		
			ORIGINAL ID> LTSSBB01 LAB SAMPLE ID> 209315-0 ID FROM REPORT> LTSSBB01 SAMPLE DATE> 04/26/02 MATRIX> Soil	18 LTSCBB0118 09 209315-010 18 LTSCBB0118 04/26/02	LTSSBB0218 209315-007 LTSSBB0218 04/26/02	LTSSBB0225 209315-008 LTSSBB0225 04/26/02	209315-013 LTSSBB0305 04/26/02	LTS-S-BB03-14 LTSSBB0314 209315-014 LTSSBB0314 04/26/02 Soil
9999900-09-4 pH 7.6 7.62 6.11 6.99 7.62	CAS #	# Parameter	209315	209315	209315	209315	209315	209315
	00-09-4	-4 pH	7	.6 7.62	6.11	6.99	7.62	7.37
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PH		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> MATRIX> UNITS>	LTSSBB0417 04/26/02	LTS-S-BB04-25 LTSSBB0425 209315-012 LTSSBB0425 04/26/02 Soil	LTS-S-BB3B-12 LTSSBB3B12 207922-4 LTSSBB3B12 06/07/02 Soil	LTS-S-BB3B-14 LTSSBB3B14 209722-5 LTSSBB3B14 06/07/02 Soil	LTS-S-883B-16 LTSSB83B16 209722-6 LTSSB83B16 06/07/02 Soil	LTS-S-BB3C-12 LTSSBB3C12 209722-1 LTSSBB3C12 06/07/02 Soil
CAS #	Parameter		209315	209315	209722	209722	209722	209722
999900-09-4	<b>PH</b>		6.18	7.73	8.15	7.91	7.82	7.67

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	PH			SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE>	LTSSBB3C14 209722=2 LTSSBB3C14 06/07/02	LTS-S-BB3C-16 LTSSBB3C16 207922-3 LTSSBB3C16 06/07/02	LTS-S-BB3D-12 LTSSBB3D12 210146-001 LTSSBB3D12 06/07/02	LTS-S-BB3D-14 LTSSBB3D14 210146-002 LTSSBB3D14 06/07/02	LTS-C-BB3D-16 LTSCBB3D16 210146-004 LTSCBB3D16 06/07/02	LTS-S-BB3D-16 LTSSBB3D16 210146-003 LTSSBB3D16 06/07/02				
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## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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PH .	ORIGINAL LAB SAMPL ID FROM R SAMPLE DA MATRIX	D> ID> LTS-S-BB3D-18 LTSSBB3D18 LE ID> LTSSBB3D18 210701-028 LTSSBB3D18 07/11/02> Soil	LTS-S-BB3E-12 LTSSBB3E12 S243973*3 LTSSBB3E12 06/07/02 Soil	LTS-S-BB3E-14 LTSSBB3E14 S243973*4 LTSSBB3E14 06/07/02 Soil	LTS-S-BB3E-16 LTSSBB3E16 S243973*5 LTSSBB3E16 06/07/02 Soil	LTS-S-BB3F-14 LTSSBB3F14 210701-025 LTSSBB3F14 07/11/02 Soil	LTS-S-BB3F-16 LTSSBB3F16 210701-026 LTSSBB3F16 07/11/02 Soil
CAS #	≇ Parameter	210701	210127	210127	210127	210701	210701
9999900-09-4	рН .	4.8	4.6	4.9	. 5.	4.8	4.8
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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	РH			SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> MATRIX> UNITS>	LTSSBB3F18 210701-027 LTSSBB3F18 07/11/02	LTS-S-BB3G-10 LTSSBB3G10 210701-014 LTSSBB3G10 07/11/02 Soil	LTS-S-BB3G-12 LTSSBB3G12 210701+015 LTSSBB3G12 07/11/02 Soil	LTS-C-883G-14 LTSC883G14 210701-017 LTSC883G14 07/11/02 Soil	LTS-S-BB3G-14 LTSSBB3G14 210701-016 LTSSBB3G14 07/11/02 Soil	LTS-S-BB3G-16 LTSSBB3G16 210701-018 LTSSBB3G16 07/11/02 Soil
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PH.			SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> MATRIX> UNITS>	LTSSBB3G18 210701-019 LTSSBB3G18 07/11/02	LTS-S-BB3H-14 LTSSBB3H14 210701-020 LTSSBB3H14 07/11/02 Soil	LTS-S-BB3H-16 LTSSBB3H16 210701-021 LTSSBB3H16 07/11/02 Soil	LTS-S-BB3H-18 LTSSBB3H18 210701-022 LTSSBB3H18 07/11/02 Soil	LTS-S-8B3I-14 LTSSBB3I14 210701-011 LTSSBB3I14 07/11/02 Soil	LTS-S-BB31=16 LTSSBB3116 210701=012 LTSSBB3116 07/11/02 Soil
	CAS #	Parameter		210701	210701	210701	210701	210701	210701
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Page: LIBERTYVILLE TRAINING SITE DATALCP3 Time: 14:33 6A & 7 FURTHER INVESTIGATION 08/23/02 Magazines Bravo and Charlie Soil Samples LTS-S-BB3J-14 LTS-S-BB3K-10 LTS-S-BB3J-12 LTS-S-BB3J-10 LTS-C-BB3J-10 LTS-S-BB31-18 SAMPLE ID -----PH LTSSBB3K10 LTSSBB3J12 LTSSBB3J14 LTSSBB3J10 LTSCBB3J10 LTSSBB3118 ORIGINAL ID ----> 210701-004 LTSSBB3K10 210701-009 210701-008 210701-013 210701-007 210701-010 LAB SAMPLE ID ---> LTSSBB3J14 LTSSBB3J12 LTSCBB3J10 LTSSBB3J10 LTSSBB3118 ID FROM REPORT --> 07/11/02 07/11/02 07/11/02 07/11/02 07/11/02 07/11/02 SAMPLE DATE ----> Soil Soil Soil Soil Soil MATRIX ----> Soil UNITS -----> 210701 210701 210701 210701 210701 CAS # Parameter 210701 4.8 4.8 4.9 4.9 5. 4.9 19999900-09-4 pH

1	ALCI 23/1						M	agaz	6A	& 7	FURT	HER :	INVES'	NG SIT TIGATI e Soil	NC	amples			. • •			Page: Time:	: 32 : 14:33
PH					ORIGINAL LAB SAMP ID FROM SAMPLE D MATRIX -	D> ID> LE ID> REPORT> ATE>	LTSSBE 210701 LTSSBE 07/11/	3K12 -005 3K12	2	LTS-S LTSSB 21070 LTSSB 07/11 Soil	1-006 33K14	4	LTS-S- LTSSB0 209315 LTSSB0 04/26/ Soil	-017 0212		LTS-S-BC04- LTSSBC0422 209315-015 LTSSBC0422 04/26/02 Soil	22	LTS-C-I LTSCBC0 209315 LTSCBC0 04/26/0 Soil	)422 -016 )422				
	C	CAS #	Parame	er			210701			21070	1		209315			209315		209315					
9999	900-	09-4	рН			- *		4.9	<u> </u>		4.8			8.02		7.63			7.84	<u> </u>	1600-0-20	<u>i e de de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition dell</u>	
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SPLP METAL		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> MATRIX> UNITS>	LTS-S-BB01-18 LTSSB0118 209315-009 LTSSB0118 04/26/02 05/01/02 05/03/02 Soil MG/L	LTS-C-BB01-18 LTSCBB0118 209315-010 LTSCBB0118 04/26/02 05/01/02 05/03/02 Soil MG/L	LTS-S-BB02-18 LTSSBB0218 209315-007 LTSSBB0218 04/26/02 05/01/02 05/03/02 Soil MG/L	LTS-S-BB02-25 LTSSBB0225 209315-008 LTSSBB0225 04/26/02 05/01/02 05/03/02 Soil MG/L	LTS*S-BB03-05 LTSSBB0305 209315-013 LTSSBB0305 04/26/02 05/01/02 05/03/02 Soil MG/L	LTS-S-BB03-14 LTSSBB0314 209315-014 LTSSBB0314 04/26/02 05/01/02 05/03/02 Soil MG/L
7440-47-3 7440-48-4 7439-92-1	Cobalt Lead Manganese		209315 VAL  0.033 J 0.01 J 0.017 J 0.21 0.05 U	209315 VAL  0.05 U 0.05 U 0.05 U 0.03 U 0.03 U	209315 VAL  0.05 U  0.05 U  0.005 J  0.065  0.05 U	209315 VAL  0.02 J 0.008 J 0.01 J 0.26 0.05 U	209315 VAL  0.05 U  0.05 U  0.05 U  0.085 U  0.085 U	209315 VAL 0.05 U 0.05 U 0.05 U 0.19 0 0.05 U
`7440-62-2	Vànad i um:		0.043 J	0.009 J	0.015 J	0.028 J	0.05 U	0.008 J
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LIBERTYVILLE TRAINING SITE

6A & 7 FURTHER INVESTIGATION

Magazines Brayo and Charlie Soil Samples

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ORIGINAL ID> LAB SAMPLE ID> LAB SAMPLE ID> LO9315-011 D FROM REPORT> LTSSBB0417 LTSSBB0425 LTSSBB0425 LTSSBB3B12 LTSSBB3B14 LTSSBB3B14 LTSSBB3B16 LTSSBB3C12 O6/07/02 O6/07/02 O6/07/02 O6/07/02 O6/07/02 O6/17/02 O			A STATE OF	Magazınes	Bravo and Ch	ratite port po	zmbres	principal and the second secon	Secretary of the secretary
CAS # Parameter         209313         VAC         209314         VAC         209314 <th>SPLP METAL</th> <th></th> <th>ORIGINAL ID</th> <th>LTSSBB0417 209315-011 LTSSBB0417 04/26/02 05/01/02 05/03/02 Soil</th> <th>LTSSBB0425 209315-012 LTSSBB0425 04/26/02 05/01/02 05/03/02 Soil</th> <th>LTSSBB3B12 210127-003 LTSSBB3B12 06/07/02 06/12/02 06/17/02 Soil</th> <th>LTSSBB3B14 210127-004 LTSSBB3B14 06/07/02 06/12/02 06/17/02 Soil</th> <th>LTSSBB3B16 210127-005 LTSSBB3B16 06/07/02 06/12/02 06/17/02 Soil</th> <th>LTSSBB3C12 210127-006 LTSSBB3C12 06/07/02 06/12/02 06/17/02 Soil</th>	SPLP METAL		ORIGINAL ID	LTSSBB0417 209315-011 LTSSBB0417 04/26/02 05/01/02 05/03/02 Soil	LTSSBB0425 209315-012 LTSSBB0425 04/26/02 05/01/02 05/03/02 Soil	LTSSBB3B12 210127-003 LTSSBB3B12 06/07/02 06/12/02 06/17/02 Soil	LTSSBB3B14 210127-004 LTSSBB3B14 06/07/02 06/12/02 06/17/02 Soil	LTSSBB3B16 210127-005 LTSSBB3B16 06/07/02 06/12/02 06/17/02 Soil	LTSSBB3C12 210127-006 LTSSBB3C12 06/07/02 06/12/02 06/17/02 Soil
7440-47-3 Chromium  7440-48-4 Cobalt  7439-92-1 Lead  7439-96-5 Manganese  7440-22-4 Silver  7440-48-4 Cobalt  0.05 U  0.05 U  0.05 U  0.05 U  0.05 U  0.05 U  0.005 U	CAS # Pa	rameter		209315 VAL	209315 VAL	210127 VAL	210127 VAL	210127 VAL	210127 VAL
	7440-47-3 Ch 7440-48-4 Col 7439-92-1 Le 7439-96-5 Mai 7440-22-4 Si	romium balt ad nganese		0.05 U 0.05 U 0.052 0.052	0.05 U 0.05 U 0.033 J 0.05 U	0.005 J 0.0057 J 0.23 0.05 U	0.05 U 0.0075 U 0.018 J 0.05 U	0,006 J 0,0069 J 0,097 0,05 U	0.05 U 0.0075 U 0.1 0.05 U
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LIBERTYVILLE TRAINING SITE

6A & 7 FURTHER INVESTIGATION

Magazines Bravo and Charlie Soil Samples

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	•			magazines	Bravo and Ch	larite soit so	ampico		
-	SPLP METAL		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	210127-007 LTSSBB3C14 06/07/02 06/12/02	LTS-S-BB3C-16 LTSSBB3C16 210127-008 LTSSBB3C16 06/07/02 06/12/02 06/17/02 Soil MG/L	LTS-S-BB3D-12 LTSSBB3D12 210146-001 LTSSBB3D12 06/07/02 06/13/02 06/14/02 Soil MG/L	LTS-S-BB3D-14 LTSSBB3D14 210146-002 LTSSBB3D14 06/07/02 06/13/02 06/14/02 Soil MG/L	LTS-S-BB3D-16 LTSSBB3D16 210146-003 LTSSBB3D16 06/07/02 06/13/02 06/14/02 Soil MG/L	LTS-C-BB3D-16: LTSCBB3D16 210146-004 LTSCBB3D16 06/07/02 06/13/02 06/14/02 Soil MG/L
	CAS #	Parameter		210127 VAL	210127 VAL	210146 VAL	210146 VAL	210146 VAL	210146 VAL
	7440-47-3 7440-48-4 7439-92-1	Chromium Cobalt Lead Manganese Silver		0.05 U 0.05 U 0.0075 U 0.05 U 0.05 U 0.05 U	0.016 J 0.007 J 0.0075 U 0.14 0.05 U 0.021 J	0.013 J <sup>2</sup> 0.05 U 0.0067 J 0.25 0.05 U 0.021 J	0.01 J 0.05 U 0.0057 J 0.17 0.05 U 0.016 J	0.038 J 0.018 J 0.026 0.51 0.05 U 0.056	0.014 J 0.005 J 0.0097 0.24 0.05 U 0.023 J
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LIBERTYVILLE TRAINING SITE
6A & 7 FURTHER INVESTIGATION
Magazines Bravo and Charlie Soil Samples

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	SPLP METAL		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT -> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTSSBB3D18 07/11/02 07/16/02 07/17/02 Water	LTS-S-BB3E-12 LTSSBB3E12 210127-009 LTSSBB3E12 06/07/02 06/12/02 06/17/02 Soil MG/L	LTS-S-BB3E-14 LTSSBB3E14 210127-010 LTSSBB3E14 06/07/02 06/12/02 06/17/02 Soil MG/L	LTS-S-BB3E-16 LTSSBB3E16 210127-011 LTSSBB3E16 06/07/02 06/12/02 06/17/02 Soil MG/L	LTS-S-BB3F-14 LTSSBB3F14 210720-024 LTSSBB3F14 07/11/02 07/16/02 07/17/02 Water MG/L	LTS-S-BB3F-16 LTSSBB3F16 210720-025 LTSSBB3F16 07/11/02 07/16/02 07/17/02 Water MG/L
	CAS #	Parameter		210720 VAL	210127 VAL	210127 . VAL	210127 VAL	210720 VAL	210720 VAL
	7440-47-3 7440-48-4 7439-92-1 7439-96-5 7440-22-4 7440-62-2	Cobalt Lead Manganese Silver		0.016 J 0.005 J 0.0075 U 0.086 0.05 U 0.023 J	0.05 U 0.05 U 0.0075 U 0.015 U 0.05 U 0.007 J	0.019 J 0.008 J 0.01 0.28 0.05 U 0.027 J	0.026 J 0.013 J 0.02 0.35 0.05 U 0.038 J	0.012 J 0.05 U 0.0075 U 0.16 0.05 U 0.018 J	0.016 J 0.005 J 0.013 0.18 0.05 U 0.025 J
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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		· ·	Magazines	bravo and cr	ortio both	<b>-</b>	100000000000000000000000000000000000000	
SPLP METAL		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT -> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTSSBB3F18	LTS-S-BB3G-10 LTSSBB3G10 210720-013 LTSSBB3G10 07/11/02 07/16/02 07/17/02 Water MG/L	LTS-S-BB3G-12 LTSSBB3G12 210720-014 LTSSBB3G12 07/11/02 07/16/02 07/17/02 Water MG/L	LTS-S-BB3G-14 LTSSBB3G14 210720-015 LTSSBB3G14 07/11/02 07/16/02 07/17/02 Water MG/L	LTS-C-BB3G-14 LTSCBB3G14 210720-016 LTSCBB3G14 07/11/02 07/16/02 07/17/02 Water MG/L	LTS-S-BB3G-16 LTSSBB3G16 210720-017 LTSSBB3G16 07/11/02 07/16/02 07/17/02 Water MG/L
CAS #	Parameter		210720 VAL	210720 VAL	210720 VAL	210720 VAL	210720 VAL	210720 VAL
7440-47-3 7440-48-4 7439-92-1 7439-96-5 7440-22-4 7440-62-2	Cobalt Lead Manganese Silver		0.018 J 0.006 J 0.0066 J 0.12 0.05 U 0.024 J	0.05 U 0.05 U 0.0075 U 0.11 0.05 U 0.007 J	0.013 J 0.05 U 0.0075 U 0.17 0.05 U 0.018 J	0.05 U 0.05 U 0.0075 U 0.058 0.05 U 0.009 J	0.017 J 0.005 J 0.0061 J 0.17 0.05 U 0.025 J	0.05 U 0.05 U 0.0075 U 0.063 0.05 U 0.011 U
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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5	SPLP	HE	TAL					OR LA ID SA DA DA MA	IGI BS FR MPL TE TE TRI	NA AM OM E EX AN X	L PLI RI DAT TR/ ALY	ID EPO EPO CT (ZE	D - RT ED D -		> > > > > > > > > > > > > > > > > > > >	LT 21 LT 07 07	SSI 072 SSI /1: /10 /17	1830 10-0 1830 702 702	2		3			L 2 0 0 0	TS: 10 TS: 7/ 7/	SBE 720 SBE 11, 16, 17, er	B3H 0-C B3H /02 /02 /02	•		•			LT 21 LT 07 07	SSE 072 SSE /11 /16 /17 ter	831 0-0 831 /02 /02 /02	2		,			L1 21 07 07 07	(S- (SS (O7 (SS 7/1 7/1 (1/1 (i/L	BB3 20- BB3 1/0 6/0 7/0	SH1 -02 SH1 )2 )2	1	8			LT 21 LT 07 07 07	S-S SSB 072 SSB /11 /16 /17 ter /L	B31 0-0 B31 /02 /02	14 )10 14				LTS 210	SSB 072 SSB /11 /16 /17 ter	B31 0-0 B31 /02 /02 /02	2				
Γ		CA	AS #	¥ Pa	rame	ter						01.1 105. 3 83				21	072	0				VA	L	2	107	720	)				VAL		21	072	0			١	VAL		21	07	20				VAL		21	072	0				VAL	210	72	0			٦,	VAL	
	742 743 743	0-4 9-9 9-9 0-2	48-4 92-1 96-5 22-4	Col Lea Mar	romic palt ad ngane lver nadic	ese					e la	9. C.						) ) (	0.05 0.05 0.06 0.06 0.05	5 075 27 5	U U U						0 0 0	0.0 0.0 0.1 0.1 0.0	5 075 9	U U					0 0 0	0.00 0.00 0.02 0.03 0.05 0.05	13 2 6 5	J U						0. 0. 0.	05 05 007 057 057	ั5 เ เ	j J				0 0 0	.0:	08 12 7	J	fire 			0 0 0	0.05	5 075 <b>3</b> 4	U U U		
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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08/23/02	•		6A Magazines	& / FURTHER I Bravo and Ch	narlie Soil S	amples		11mc. 14.33
SPLP METAL		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTSSBB3118 07/11/02 07/16/02 07/17/02 Water	LTS-S-BB3J-10 LTSSB3J10 210720-006 LTSSB3J10 07/11/02 07/16/02 07/17/02 Water MG/L	LTS-C-BB3J-10 LTSCBB3J10 210720-009 LTSCBB3J10 07/11/02 07/16/02 07/17/02 Water MG/L	LTS-S-BB3J-12 LTSSBB3J12 210720-007 LTSSBB3J12 07/11/02 07/16/02 07/17/02 Water MG/L	LTS-S-BB3J-14 LTSSBB3J14 210720-008 LTSSBB3J14 07/11/02 07/16/02 07/17/02 Water MG/L	LTS-S-BB3K-10 LTSSBB3K10 210720-003 LTSSBB3K10 07/11/02 07/16/02 07/17/02 Water MG/L
CAS: #	# Parameter		210720 VAL	210720 VAL	210720 VAL	210720 VAL	210720 VAL	210720 VAL
7440-48-4 7439-92-1 7439-96-5 7440-22-4	1 Lead Manganese		0.05 U 0.05 U 0.0075 U 0.03 J 0.05 U 0.007 J	0.02 J 0.007 J 0.012 0.22 0.05 U 0.032 J	0.024 J 0.009 J 0.012 0.21 0.05 U 0.036 J	0.05 U 0.05 U 0.0075 U 0.03 J 0.05 U 0.008 J	0.05 U 0.05 U 0.0075 U 0.05 U 0.05 U 0.08 J	0.05 U 0.05 U 0.0075 U 0.05 U 0.05 U 0.05 U
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SP	LP' METAL				SAMPIORIG CRIG LAB: ID F SAMPI DATE DATE MATR UNIT:	INAL SAMPL ROM R LE DA EXTR ANAL IX	ID E ID EPORT TE ACTED YZED	>  > >	210 210 LTS: 07/ 07/ 07/ Wate	SBB3k 720-0 SBB3k 11/02 16/02 17/02 er	104 (12 )	2	LTS: 210 LTS: 07/ 07/		14 05 14		LTS-S-LTSSBC 209315 LTSSBC 04/26/ 05/01/ 05/03/ Soil MG/L	)212 -017 )212 )2 )2	2		TS-S- TSSBC 209315 TSSBC 04/26/ 05/01/ 05/03/ Soil MG/L	0422 -015 0422 02 02	22		LTSCB 20931	/02						
	CAS #	Para	meter						210	720		VAL	210	720		VAL	209315		VAI		209315		V	VL.	20931	5		VAL				1 17 <u>2002 1353</u>
	7440-47-3 7440-48-4 7439-92-1 7439-96-5 7440-22-4	Chro Cobe Leac Mang	omium alt d ganese ver							( ( ( (	0.007! 0.05	บ 5 บ บ		0 0 0 0	.053 .021 .017 .33 .05			0.05 0.05 0.05 0.19 0.05 0.007	U			0.05 0.05 0.05 0.05 0.05 0.05	U U U			0.0 0.0 0.0 0.0 0.0	5 ເ 5 ເ	j J				
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\*\*\* Validation Complete \*\*\*

# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SVOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB01-18 LTSSBB0118 S242909*5 LTSSBB0118 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-C-BB01:18 LTSCBB0118 S242909*6 LTSCBB0118 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB02-18 LTSSB0218 S242909*3 LTSSB0218 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB02-25 LTSSBB0225 S242909*4 LTSSBB0225 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB03-05 LTSSBB0305 S242909*9 LTSSBB0305 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB03-14 LTSSBB0314 S242909*10 LTSSBB0314 04/26/02 05/01/02 05/03/02 Soil UG/KG
CAS #	Parameter	209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL
108-95-2	Phenol	390. U	390. U	420. U	400. U	370. U	380. ປ 380. ປ
111-44-4	bis(2-Chloroethyl)ether	<b>390.</b> U	390. U	420. U	400. U	370. U	VOLUME TO A STATE OF THE A STATE OF
95-57-8	2-Chlorophenol	390. U	390. U -	420. U	400. U	370. U	380. U
	2-Methylphenol (o-Cresol)	390. U	390. U	420. U	400. U	370. U	380. ∪ 380. ∪
108-60-1	2,21-oxybis(1-Chloropropane)/bis(2-	chlor 390. U	390. U	420. U	400. U	370. U ' 370. U	380. U
	3-Methylphenol/4-Methylphenol	<b>39</b> 0. U	390. U	420, U	400. U	370. U	380. U
	N-Nitroso-di-n-propylamine	390. U	390. U	420. U	400. U 400. U	370. U	380. U
, 150 SUTLAND	Hexachloroethane	390. U	390. U	420, U	400. U	370. U	380. U
	Nitrobenzene	390. U	390. U	420. U 420. U	400. U	370. U	380. U
10 100 100	Isophorone	390. U	390. U	420. U 420. U	400. U	370. U	380. U
182 1, 100 1, 100	2-Nitrophenol	390. U	390. U	รางราครั้งรายรายการที่เป็นกับคือ ความสายสมัยสอบวิจาของสายสายส	400. U	370. U	380. U
	2,4-Dimethylphenol	390. U	390. U 390. U	420. U 420. U	400. U	370. U	380. U
	2,4-Dichlorophenol	390. U	390. U 390. U	420. U	400. U	370. Ů	380. U
1	4-Chloroaniline	390. U	390. U	420. U	400. U	370. U	380. U
1	bis(2-Chloroethoxy)methane	390. U 390. U	390. U	420. U	400. U	370. U	380. U
11 11 11 11 11 11 11	Hexachlorobutadiene	11 + 16 15040 M24 M24 M24 M44 M44 M44 M44 M44 M44 M44	390. U	420. U	400. U	370. U	380. U
Service and the service of the servi	4-Chloro-3-methylphenol	390. U 390. U	390. U	420. U	400. U	370. U	380. U
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2-Methylnaphthalene	390. U	390. U	420. U	400. U	370. U	380. U
	Hexachlorocyclopentadiene 2,4,6-Trichlorophenol	390. U	390. U	420. U	400. U	370. U	380. U
		980. U	990. U	1000. U	1000. U	920. U	950. U
	2,4,5-Trichlorophenol 2-Chloronaphthalene	900. U 390. U	390. U	420. U	400. U	370. U	380. ∪
	2-Nitroaniline	980. U	990. U	1000. U	1000. U	920. U	950. U
1	Dimethylphthalate	390. U	390. U	420. U	400. ∪	370. U	380. U
	2,6-Dinitrotoluene	390. U	70N II	420. U	400. U	370. U	380. U
1	3-Nitroaniline	980. Ŭ	990.	1000. U	1000. U	920. U	950. U
	2,4-Dinitrophenol	980. U	990. U	1000. U	1000. U	920. U	950. U
	4-Nitrophenol	980. U	990. U	1000 U	1000. U	<b>920.</b> U	950. U
1	Dibenzofuran	390. U	390. U	420. U	400. U	370. U	380. U
	2,4-Dinitrotoluene	390. U	390. U	420. U	400. ∪	370. U	380. U
	Diethylphthalate	390. U	390. U	420. U	400. U	370. U	380. U
	4-Chlorophenylphenyl ether	390. U	390. U	420. U	400. U	<b>370.</b> U	380. U
	4-Nitroaniline	980. U	990. U	1000. ປ	1000. U	920. U	950. U
534-52-1	2-Methyl-4,6-Dinitrophenol	980. U	990. U	1000. U	1000. U	920. U	950. U
1 1	Diphenylamine	390. U	390. U	420. U	400. U	<b>370.</b> U	380. U
101-55-3	4-Bromophenyl-phenylether	390. U	390. U	420. U	400. U	370. U	380. ∪
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# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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	SVÖA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTSSBB0118 \$242909*5 LTSSBB0118 04/26/02 05/01/02 05/03/02 Soil	LTS-C-BB01-18 LTSCBB0118 S242909*6 LTSCBB0118 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB02-18 LTSSB80218 S242909*3 LTSSB80218 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB02-25 LTSSBB0225 S242900*4 LTSSBB0225 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB03-05 LTSSBB0305 S242909*9 LTSSBB0305 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB03-14 LTSSBB0314 S242909*10 LTSSBB0314 04/26/02 05/01/02 05/03/02 S01L UG/KG
-	CAS	# Parameter	209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL
	87-86- 86-74- 84-74- 85-68- 91-94- 117-81- 117-84- 100-52- 98-86- 105-60- 92-52-	Hexachlorobenzene Pentachlorophenol: Carbazole Di-n-butylphthalate Butylbenzylphthalate Ji-Dichlorobenzidine bis(2-Ethylhexyl)phthalate (BEHP) Di-n-octylphthalate Benzaldehyde Acetophenone Caprolactam Ji-Biphenyl Atrazine	390. U 980. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U	390. U 990. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U	420. U 1000. U 420. U 420. U 420. U 420. U 420. U 420. U 420. U 420. U 420. U 420. U 420. U 420. U 420. U 420. U	400. U 1000. U 400. U 400. U 400. U 400. U 400. U 400. U 400. U 400. U 400. U 400. U 400. U 400. U 400. U	370. U 920. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U 370. U	380. U 950. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U

# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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	SVCA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB04-17 LTSSBB0417 S242909*7 LTSSBB0417 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB04-25 LTSSBB0425 S242909*8 LTSSBB0425 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB3B-12 LTSSBB3B12 s243390*4 LTSSBBBB12 05/14/02 05/17/02 05/24/02 Soil UG/KG	LTS-S-BB3B-14 LTSSBB3B14 S243390*5 LTSSBB3B14 05/14/02 05/17/02 05/24/02 Soil UG/KG	LTS-S-BB3B-16 LTSSBB3B16 S243390*6 LTSSBB3B16 05/14/02 05/17/02 05/17/02 05/24/02 Soil UG/KG	LTS-S-BB3C-12 LTSSBB3C12 S243390*1 LTSSBB3C12 05/14/02 05/17/02 05/24/02 Soil UG/KG
	CAS #	Parameter	209315 VAL	209315 VAL	209722 VAL	209722 VAL	209722 VAL	209722 VAL
٠.	108-95-2	Phenol	380. U	380. U	380. U	380. U	380. ∪ 380. U	390. U 390. U
	111-44-4	bis(2-Chloroethyl)ether	<b>380.</b> U	380. U	380. U	380. U	380. U 380. U	390. U
٠.		2-Chlorophenol	380. U	380. U	380. U	380. U 380. U	380. U	390. U
		2-Methylphenol (o-Cresol)	380. U	380. U	380. U	380. U 380. U	380. U	390. U
	108-60-1	2,2!-oxybis(1-Chloropropane)/bis(2-		380. U	380. U 380. U	380. U	380. U	390. Ü
		3-Methylphenol/4-Methylphenol	380. ⊔	380. U	380. U 380. U	380. U	380. U	390. U
		N-Nitroso-di-n-propylamine	380. U	380. U 380. U	380. U	380. U	380. U	390. U
	7 1 7	Hexachloroethane	380. U	380. U	380° U	380. U	380. U	390. U
	1 1 202 1	Nitrobenzene	380. U 380. U	380. U	380. U	380. U	380. U	390. U
٠.,	1	Isophorone #	380. U	380. U	380. U	380. ∪	380. ∪	390. U
		2-Nitrophenol	380. U	380. U	380. U	380. U	380. U	390. U
	105-67-9	2,4-Dimethylphenol 2,4-Dichlorophenol	380. U	380. U	380. U	380. U	380. U	390. U
		4-Chloroaniline	380. U	380. U	380. U	380. U	380. U	390. U
		bis(2-Chloroethoxy)methane	380. U	380. U	<b>380.</b> U	380. U	380. U	390. U
	1 10 2000 000	Hexachlorobutadiene	380. U	380. U	380. U	380. U	380. U	390. U
. ,		4-Chloro-3-methylphenol	380. U	380. U	380. U	380. U	380. U	390. U
	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-Methylnaphthalene	380. U	380. U	<b>380.</b> U	380. U	380. U	390. U
ι,		Hexachlorocyclopentadiene	380. U	380. U	380. U	380. U	380. U	390. U
٠.,		2,4,6-Trichlorophenol	380. U	380. U	<b>380.</b> U	380. U	380. U	390. U 980. U
`.		2,4,5-Trichlorophenol	960. U	950. U	960. U	960. U	940. Ú	390. U
	91-58-7	2-Chloronaphthalene	380. U	380. U	380. U	380. U	380. U 940. U	980. U
	88-74-4	2-Nitroaniline	960. Ú	950 U	960' U '	960. U	940. U 380. U	390. U
		Dimethylphthalate	380. U	380. U	380. U	380. U 380. U	380. U	390. U
		2,6-Dinitrotoluene	380. U	380. U	380. U	380. U 960. U	940 U	980. U
		3-Nitroaniline	960. U	950. U	960. U 960. U	960. U	940. Ú	980. U
		2,4-Dinitrophenol	960. U	950. U	al le la le la real séculione de la compansación de la facilitation de la compansación de la facilitation de	960. U	940. Ü	980. U
: .		4-Nitrophenol	960. U	950. U	960. U 380. U	380. U	380. U	390. U
		Dibenzofuran	380. U	380. U 380. U	380. U	380. U	380. U	390. U
		2,4-Dinitrotoluene	380. U	380. U	380. U	380. U	380. U	390. U
	and the second s	Diethylphthalate	380. U 380. U	380. U	380. U	380. U	380. U	390. U
		4-Chlorophenylphenyl ether	380. U 960. U	950. U	960. U	960. U	940. U	980. U
-		4-Nitroaniline	960. U	950. U	960. U	960. U	940. U	980. U
		2-Methyl-4,6-Dinitrophenol	380. U	380. ∪	380. U	380. U	380. U	390. U
		Diphenylamine 4-Bromophenyl-phenylether	380. U	380. U	380. U	380. U	380. U	390. U
	101-22-3	+-Promobited Acabited Academic (1997)		4	Andrew Contraction and Antonion Contraction and Antonion Contraction and Antonion Contraction and Antonion Contraction and Antonion Contraction and Antonion Contraction Contr			
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# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB04-17 LTSSBB0417 \$242909*7 LTSSBB0417 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB04-25 LTSSBB0425 S242909*8 LTSSBB0425 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BB3B-12 LTSSBB3B12 S243390*4 LTSSBB3B12 05/14/02 05/17/02 05/17/02 05/24/02 Soil UG/KG	LTS-S-BB3B-14 LTSSBB3B14 S243390*5 LTSSBB3B14 05/14/02 05/17/02 05/24/02 Soil UG/KG	LTS-S-BB3B-16 LTSSBB3B16 S243390*6 LTSSBB3B16 05/14/02 05/17/02 05/24/02 Soil UG/KG	LTS-S-BB3C-12 LTSSBB3C12 S243390*1 LTSSBB3C12 05/14/02 05/17/02 05/24/02 S01L UG/KG
	CAS #	Parameter	209315 VAL	209315 VAL	209722 VAL	209722 VAL	209722 VAL	209722 VAL
87 86 84 85 91 117 117 100 98 105	7-86-5 6-74-8 4-74-2 5-68-7 1-94-1 7-81-7 7-84-0 0-52-7 8-86-2 5-60-2 2-52-4	Hexachlorobenzene Pentachlorophenol Carbazole Di-n-butylphthalate Butylbenzylphthalate 3,3'-Dichlorobenzidine bis(2-Ethylhexyl)phthalate (BEHP) Di-n-octylphthalate Benzaldehyde Acetophenone Caprolactam 1,1-Biphenyl Atrazine	380. U 960. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	380. U 950. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	380. U 960. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	380. U 960. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	380. U 940. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	390. U 980. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U
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## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SVOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB3C-14 LTSSBB3C14 S243390*2 LTSSBB3C14 05/14/02 05/17/02 05/24/02 Soil UG/KG		LTS-S-BB3C-16 LTSSBB3C16 S243390*3*RE LTSSBB3C16 05/14/02 05/17/02 05/24/02 Soil UG/KG	RE	LTS-S-BB3D-12 LTSSBB3D12 S244037*5 LTSSBB3D12 06/07/02 06/19/02 06/21/02 Soil UG/KG		LTS-S-BB3D LTSSBB3D14 S244037*6 LTSSBB3D14 06/07/02 06/19/02 06/21/02 Soil UG/KG		LTS-S-BB3D LTSSBB3D16 S244037*7 LTSSBB3D16 06/07/02 06/19/02 06/21/02 Soil UG/KG		LTS-C-BB3D LTSCBB3D16 S244037*8 LTSCBB3D16 06/07/02 06/19/02 06/21/02 Soil UG/KG	
CAS.#	Parameter	209722	VAL	209722	VAL	210146	VAL	210146	VAL	210146	VAL		VAL
108-95-2	Phenol	380. U	,	380.	U	370.	U socjeroropecki	380.	U*	380. 380.	្ឋ ម	400. 400.	. <u>U</u>
111-44-4	ois(2-Chloroethyl)ether		1	380.	Ü	370.	U	380.	Ü		U	400.	· U
	2-Chlorophenol	380. U		380.	U Sercessoria	370.	U	380.	U	380. 380.		400.	្រ
	2-Methylphenol (o-Cresol)	The state of the s		380.	U	370.	U	380.	V U	380.	or oxy wax U	400.	U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2-		1	380.	· U	370.	U	380.	U U	380.	U V	400.	
9999900-32-2	3-Methylphenol/4-Methylphenol	380. U	V . V . V .	380.	Ų	370.	U	380.	U	380.	, por esta de la composición de la composición de la composición de la composición de la composición de la comp La composición de la composición de la composición de la composición de la composición de la composición de la	400.	U U
621-64-7	N-Nitroso-di-n-propylamine	380. U	15-00-00-00-0	380.	U	370.	U	380. 380.	Ü	380.		400	Ü
67-72-1	Hexachloroethane	380. U		380.	U	370.	U	A SECURE AND A SECURE AND A SECURE AS A SE		380.	U	400.	·U
98-95-3	Nitrobenzene	380. U	and a second	380.	Ų	370.	U	380.	U	380.	Ü	400.	ŭ
78-59-1	Isophorone	380. U		380.	U	370.	U	380.	U	380.	u U	400.	U
88-75-5	2-Nitrophenol	380. U	an anagers of	380.	U	370.	U	380.	U	380.	្រប់	400.	Ŭ
	2,4-Dimethylphenol	380. U		380.	U	370.	U	380.		380.	maria, NULA Segri U	400.	U U
120-83-2	2,4-Dichlorophenol	380. U	10000000000000	380.	U	370.	U	380.	U.	380.	Ü	400.	¢⊹்ப் ⊹
106-47-8	4-Chloroaniline	380. U		380.	U	370.	U	380.		380.	U	400	u U
	ois(2-Chloroethoxy)methane	380. U	200 1 12 4	380.	U 	370.	U	380.	U Januar salah 198	380.	~ Ü %	400.	્રાં /
87-68-3	Hexach Lorobutadiene	380. U		380.	Ü	370.	U	380.	U	380.	U	400.	U
59-50-7	4-Chloro-3-methylphenol	380. U	Secretary and Company of the Company	380.	U	370.	U	380.	U	380.	U	400.	Ü
91-57-6	2-Methylnaphthalene	380. U		380.	U	370.	U	380.	U	380.	U	400.	HANGE STATE
	Hexachlorocyclopentadiene	380. U	an arrange	380.	U	370.	U	380.	U	380.	Ü	400.	ં હ
	2,4,6-Trichlorophenol	380. U	and the same	380.	U	370.	U	380.	U	950.	oga, ya <b>y</b> agamaya U	1000.	ry, rug (Vir. H
	2,4,5-Trichlorophenol	/ <b>9</b> 60. U	0.00 0.000	940.	U	930.	U	950. 380.	Ü	380.	a i u	400.	ta d <b>u</b>
	2-Chloronaphthalene	380. ∪		380.	U	370.	U	Contract to the contract of th		950.	rest apple. The second	1000.	U
	2-Nitroaniline	960. U		940.	U	930.	U	950. 380.	્ ૄ	380.		400.	់ ប៉
	Dimethylphthalate	380. U	- 1	380.	U	370.	U	380.	U	380.	U.	400.	Ü
	2,6-Dinitrotoluene	380. U	وأحداثهم ومد	380.	U	370.	U	CONTRACTOR OF STREET	Ü	950.	i de U	1000.	Min U
	3-Nitroaniline	960. U	A 10 100 100 100 100 100 100 100 100 100	940.	U	930.	U	950. 950.	U	950.	U U	1000.	U.
	2,4-Dinitrophenol	960. U	52.1 Co.	940.	U	930.	U On O	950. 950.	្តប៉	950. 950.	Ü	1000.	Ü
	-Nitrophenol	960. U	0.00000.700	940.	U	930.	Ü	950. 380.	ુ∧ેજ્ત <b>ું</b> U	83.	J	55.	
	Dibenzofuran -	380. U	38.1.3038	หมายกระทางสอบองที่มีสติดตั้งที่จะจะจะสารจะ	U	370.	U	380. 380.	U U	380.	្រប់	400.	្រស្វ
	2,4-Dinitrotoluene	380. U		380.	U	370.	U	380.	U	380.	U	400.	U
	Diethylphthalate	380. U	21. 2 miles	380.	U	370.	U	380. 380.	Ü	380. 380.	. U	400.	Ů.
	-Chlorophenylphenyl ether	The control of the second of t		380.	Ü	370. 930.	ט ט	950 <b>.</b>	U	950.	U	1000.	U
	4-Nitroaniline	960. U		940.	U	930. 930.	Ü	950 <b>.</b> 950 <b>.</b>		950. 950.	. i u	1000.	U
	2-Methyl-4,6-Dinitrophenol	DAMA MARY MANAGAMAN, CAR ALLEGA PE		940.	Ü	930. 370.	U	380.	U	380.	U	400.	Ü
	Diphenylamine	380. U		380.	U	370. 370.	U	380.	Ü	380.	ំ ប៉	400.	U.
101 55 7 1	-Bromophenyl-phenylether	380. U		380.	98 <b>1</b> 16-100	1888 - A. C. 1888 <b>- M. H.</b> 2001 - A. S. S.	and University of	- JOU.			24 25 C	1 -50.	-

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SVOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> MATRIX> UNITS>	LTS-S-BB3C-14 LTSSBB3C14 S243390*2 LTSSBB3C14 05/14/02 05/17/02 05/24/02 Soil UG/KG	LTS-S-BB3C-16 RE LTSSBB3C16 S243390*3*RE LTSSBB3C16 05/14/02 05/17/02 05/24/02 Soil UG/KG	LTS-S-BB3D-12 LTSSBB3D12 S244037*5 LTSSBB3D12 06/07/02 06/19/02 06/21/02 Soil UG/KG	LTS-S-BB3D-14 LTSSBB3D14 S244037*6 LTSSBB3D14 06/07/02 06/19/02 06/21/02 Soil UG/KG	LTS-S-BB3D-16 LTSSBB3D16 S244037*7 LTSSBB3D16 06/07/02 06/19/02 06/21/02 Soil UG/KG	LTS-C-BB3D-16 LTSCBB3D16 S244037*8 LTSCBB3D16 06/07/02 06/19/02 06/21/02 Soil UG/KG
<u> </u>	Parameter Hexachlorobenzene	209722 VAL 380. U	209722 VAL 380, U	210146 VAL	210146 VAL 380. U	210146 VAL 380. U	210146 VAL 400. U
	Pentach Lorophenol	960. U	940. U	930. U	950. U	950. U	1000.
	Carbazole	380. U	380. U	370. U	380. U	130. J	87. J
84-74-2	Di-n-butylphthalate	380. U	380. U	370. U	380. U	380. U	400. U
	Butylbenzylphthalate	380. U	· 380. U	370. U	<b>380.</b> U	380. U	400. U
	3,31-Dichlorobenzidine	380. U	<b>38</b> 0. ∪	370. U	380. U	<b>38</b> 0. U	400. U
	bis(2-Ethylhexyl)phthalate (BEHP)	380. U	380. U	370. U	60. J	380. U	400. U
	Di-n-octylphthalate Benzaldehyde	380. U 380. U	380. U 380. U	370. U 370. U	380. U 380. U	380. U 380. U	400. U 400. U
	Acetophenone	380. U	380. U	370. U	380. U	380. U	400. U
	Caprolactam	380. U	380. U	370. U	380. U	380. U	400. U
	1,1-Biphenyl	380. U	380. U	370. U	380. U	380. U	400. U
1912-24-9	Atrazine	380. U	380. U	370. U	380. U	380. U	400. U
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## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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To From REPORT> LTSSBB3D18	S244969A*6 LTSSBB3F14 O7/11/O2 O7/15/O2 O7/19/O2 Soil UG/KG	\$244969A*7 LTSSBB3F16 07/11/02 07/15/02 07/19/02 Soil UG/KG
CAS # Parameter LIBO7 VAL 210127 VAL 210127 VAL 210127 VAL L	LIB07 VAL	LIBO7 VAL
108-95-2 Phenol 380. U 380. U 390. U 380. U 380. U 380. U 380. U	380. U 380. U	380. ປ
111-44-4 [bis(2-untoroethyt)ether	380. U	380. U
95-57-8   2-cntoropnenot	380. U	380. U
95-48-7 (2-Methylphenol (0-tresol)	380. U	380. U
108-60-1   2,2'-oxybis(1-Chtoropropane)/bis(2-chtor 360, 0   360, 0   370,	380. U	380. ∪√
700 U 700 U 700 U	380. U	<b>380.</b> U
621-64-7 N-NTCroso-di-n-propytalithe	380. U	380. U
700 II	380. U	380. U
98-95-5 NT Cropenzene	380. U	380. U
78-59-1 Isopholone	380. U	<b>380.</b> U
88-75-5 2-Nitrophenol 380. U 380. U 390. U 380. U 380. U 380. U	380. U	380. U
120-83-2 2.4-Dichlorophenol 380. U 380. U 390. U 380. U	380. U	380. U
106-67-8 4-Chloroaniline 380. U 380. U 390. U 380. U	′ 380. U	380. บ
111-01-1 his(2-chloroethoxy) methane 380. U 380. U 390. U 380. U	380. U	<b>380.</b> U
87-68-3 Hexach Corobutaciene 380. U 380. U 390. U 380. U	380. U	380. Ú
59-50-7 4-Chloro-3-methylphenol 380. U 380. U 390. U 380. U	380. U	380. U
91-57-6 2-Methylnaphthalene 380. U 380. U 390. U 380. U	380. U	380. U
77-47-4 Hexachlorocyclopentadiene 380. U 380. U 390. U 380. U	380. U	380. U
88-06-2 2.4.6-Trichtorophenol 380. U 380. U 390. U 380. U	380. U	380. U 960. U
95-95-4 2,4,5-Trichlorophenol 950. U 940. U 980. U 940. U	950. U	960. U 380. U
91-58-7 2-Chloronaphthalene 380. U 380. U 390. U 380. U	380. U 950. U	960. U
88-74-4 2-Nitroaniline 950. U 940. U 980. U 940. U	950. ປ 380. ປ	380. U
131-11-3 Dimethylphthalate 380. U 380. U 390. U 380. U (140, 20, 31, 31, 4-Dimitratelylphe 380. U 380. U 380. U 380. U 380. U	380. U	380. U
600-20-2 [2,8-9) in the total energy (0.00 to 1)	950. U	960. U
99-09-2 J-Mitt Odin title	950. U	960. U
51-28-5   2,4-91h1 trophenot	950. U	960. U
100-02:7 4-N1 ti opiienot	380. U	380. U
132-64-9 priperzoruran 500. 0 1 500.	380. U	, 380. U
300. U 700	380. U	380. U
84-66-2 pretnytphthatate	380. U	380. U
7005-72-3 4-Chlorophenylphenyl ether 380. U 380. U 380. U 380. U 380. U 380. U 940. U 940. U 940. U 940. U	<b>950.</b> U	960. U
100-01-8 4-Nitroanitine 930. 0 940. U 980. U 940. U 980. U 940. U	950. U	960. U
122-39-4 Diphenylamine 380. U 380. U 380. U	380. U	380. U
101-55-3 4-Bromophenyl-phenylether 380. U 380. U 390. U 380. U	380. U	380. ∪

## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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118-74-1   Hexachtorobenzene	OA		SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT SAMPLE DATE DATE EXTRACTED DATE ANALYZED MATRIX UNITS	> LTSSBB3D18 > S244969A*9 > LTSSBB3D18 > 07/11/02 > 07/23/02 > 07/24/02 > Soil	LTS-S-BB3E-12 LTSSBB3E12 S243973*3 LTSSBB3E12 06/07/02 06/12/02 06/14/02 Soil UG/KG	LTS-S-BB3E-14 LTSSBB3E14 S243973*4 LTSSBB3E14 06/07/02 06/12/02 06/14/02 Soil UG/KG	LTS-S-BB3E-16 LTSSBB3E16 S243973*5 LTSSBB3E16 06/07/02 06/12/02 06/14/02 Soil UG/KG	LTS-S-BB3F-14 LTSSBB3F14 S244969A*6 LTSSBB3F14 07/11/02 07/15/02 07/19/02 Soil UG/KG	LTS-S-BB3F-16 LTSSBB3F16 S244969A*7 LTSSBB3F16 07/11/02 07/15/02 07/19/02 Soil UG/KG
118-74-1   Hexachtoropenzene   360.	. CA	AS # Parameter		LIBO7 VAL	210127 VAL	210127 VAL	210127 VAL	LIBO7 VAL	L1B07 VAL
	87-86 86-76 84-76 85-66 91-96 117-8 117-86 100-56 98-86 92-56	86-5 Pentachloropher 74-8 Carbazole 74-2 Di-n-butylphtha 68-7 Butylbenzylphth 94-1 3,3'-Dichlorobe 81-7 bis(2-Ethylhex) 84-0 Di-n-octylphtha 52-7 Benzaldehyde 86-2 Acetophenone 60-2 Caprolactam 52-4 1,1-Biphenyl	nol late lalate inzidine (l)phthalate (BEHP) late	950. U 32. J 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	940. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	980. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U	940. U 56. J 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	380. U 950. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	380. U 960. U 35. J 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U
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## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SVOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB3F-1 LTSSBB3F18 S244969A*8 LTSSB3F18 07/11/02 07/15/02 07/19/02 Soil UG/KG	18	LTS-S-BB3G-10 LTSSBB3G10 S244969*13 LTSSBB3G10 07/11/02 07/15/02 07/20/02 Soil UG/KG		LTS-S-BB3G-1. LTSSBB3G12 S244969*14 LTSSBB3G12 07/11/02 07/15/02 07/20/02 Soil UG/KG	2	LTS-S-BB3G LTSSBB3G14 S244969*15 LTSSBB3G14 07/11/02 07/15/02 07/20/02 Soil UG/KG		LTS-C-BB3G LTSCBB3G14 S244969*16 LTSCBB3G14 07/11/02 07/15/02 07/21/02 Soil UG/KG	<b>)</b>	LTS-S-BB3G-16 LTSSBB3G16 S244969A*1 LTSSBB3G16 07/11/02 07/15/02 07/19/02 Soil UG/KG
CAS #	Parameter	LIB07	VAL	LIBO8	VAL	LIB08	VAL	L1808	VAL	LIB08	VAL	LIBO7 VA
108-95-2	Phenol	380.	U	400.	U	390.	U	390.	U Talah sasabasi A	3700.	U.	380. U 380. U
111-44-4	bis(2-Chloroethyl)ether	380.	Ü	400.	U	390.	U	390.	Ü	3700.	Ü	380. U 380. U
95-57-8	2-Chlorophenol	380.	U 	400.	U	390.	U	390.	- U 8883-888002 : 195-8803	3700.	U And Advanced	380. U
	2-Methylphenol (o-Cresol)	380.	Ü	400.	U	390.	U	390.	Ü	3700.	U	380. U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2		U Sistemata	400.	U ::::::::::::::::::::::::::::::::::::	390.	U	390.	U	3700. 630.		380. U
	3-Methylphenol/4-Methylphenol	380.	U	400.	U	390.	U	390.	U	3700.	reaser¥ectorise U	380. U
	N-Nitroso-di-n-propylamine	380.	U.	400.	U	390.	U	390.	U	3700. 3700.	j	380. Ü
	Hexachloroethane	380.	Ü	400.	U	390.	U	390. 390.	U U	3700.	Ü	380. U
	Nitrobenzene	380.	U 	400.	U	390.	U ************************************	ANDRIANANAN DERGAMBERGELE	Ü	3700. 3700.	្រំ	380. Ü
1 19 0	Isophorone	380.	U `	400.	U	390.	U	390. 390.	U	3700.	U	380. U
	2-Nitrophenol	380.	U .86.54295348.000	400.	U	390.	U	390.	Ü	3700. 3700.	. ŭ .	380. U
	2,4-Dimethylphenol	380.	U	400.	U	390.	U U	390.	U	3700.	U	380. U
	2,4-Dichlorophenol	380.	U Alaba Mada	400.	U	390.	55555555555555555	390. 390.	Ü	3700. 3700.		380. U
	4-Chloroaniline	380.	erion jara	400.	 U	390.	U	390.	U	3700.	U	380. U
1	bis(2-Chloroethoxy)methane	380.	U	400.	U Companya	390.	U	390. 390.	o i i i i i i i i i i i i i i i i i i i	3700. 3700.	Ü	380. U
	Hexachlorobutadiene	380.	Ü	400.	U	390.	្ U.	390.	U	3700.	Ü	380. U
	4-Chloro-3-methylphenol	380.	U Arriadas a refera	400.	U	390.	U	390. 390.	UJ	5100.		380. U
	2-Methylnaphthalene	380.		400.	Ü	390. 390.	U	390. 390.	. U	3700.	. Se teres de la composition de la composition de la composition de la composition de la composition de la comp La composition de la composition de la composition de la composition de la composition de la composition de la	380. U
	Hexachlorocyclopentadiene	380.	U	400.	U U	390. 390.	เบ้า	390. 390.	ı j	3700.	Ü	380. U
	2,4,6-Trichlorophenol	380.	1.50	400.	ુ⊍ U	980.	‱USE 1990 U	990.	U	9200.	U U	960. U
	2,4,5-Trichlorophenol	960.	U	1000. 400.		980. 390.	្ស័ 👑	390.	Partie of	3700.	ů	380. U
1	2-Chloronaphthalene	380.	U		U	980.	Teru Pada U	990.	U	9200.	U	960. U
	2-Nitroaniline	'960.	U	1000.	U	Let V. D. P. 10000000000000000000000000000000000	U	390.		3700.	Ü	380. U
	Dimethylphthalate	380.	U	400.	U	390. 390.	υ.	390. 390.	U	3700.	U	380. U
	2,6-Dinitrotoluene	380.	່ <b>ປ</b>	400.	U	980.	U.	990.	Ü	9200.	U	960. U
1	3-Nitroaniline	960.	U	1000.	U	980.	U	990.	U	9200.	U U	960. U
•	2,4-Dinitrophenol	960.	U.	1000.	U	980. 980.	Ü	990.		9200.	Ů	960. U
	4-Nitrophenol	960.	U	1000.	U	390.	U	390.	UJ	10000.	и роди город <b>М</b> ори (40% 10) <b>Ј</b>	380. U
7	Dibenzofuran	380.	U	400.	U U	390. 390.	U	390.	ૼ૽ૺ૾ૺ૽	3700.	e i i	380. U
	2,4-Dinitrotoluene	380.	U	400. 400.	U	390.	U	390.	U	3700.	U	380. U
	Diethylphthalate	380.	U	400.	U	390.	Ü	390.	Ü	3700.	Ŭ	380. U
	4-Chlorophenylphenyl ether	380.	Ų	400. 1000.	U	980.	U	990.	U ·	9200.	U	960. U
	4-Nitroaniline	960.	U	AN EXPENSIONAL PROPERTY OF THE	ASSESSED AND A SECOND	980.	Ü	990.	Ü	9200.	Ŭ	960. U
	2-Methyl-4,6-Dinitrophenol	960.	U	1000. 400.	ป U	390.	U	390.	U	3700.	U	380. U
- 1 / m	Diphenylamine	380.	U	400.	U	390.	Ü	390.	ับั	3700.	Ŭ	380. U
101-55-3	4-Bromophenyl-phenylether	380.	U	400.	U	<u>.</u>	os Yakibibi	770	epopped type of misco			2000년 200 <b>등록문문</b> (1994년 1년 1
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# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SVO	)A	<u> </u>						Of L/ II S/ D/ D/ M/	MPL RIGI AB S O FR MPL ATE ATE ATRI	NAI AMF IOH .E .C EX1 AN/	LE REI RAI RAI LY	D - ID POR E - CTE ZED	 T -  D - 	-> -> -> -> ->	L1 S2 L1 07 07 07	SSE 449 SSE /11	1831 1694 1831 102 102 102	*8 18	18			1 1 0 0	LTS: S244	SBB 496 SBB 11/ 15/ 20/ l	02	0 3	0			LTS- LTSS SZ44 LTSS 07/1 07/2 Soil	BB36 969 BB36 1/07 5/07	\$12 *14 \$12 2				LTS LTS S24 LTS 07/ 07/ S0i UG/	SBB 496 SBB 11/ 15/ 20/ l	3G1 9*1 3G1 02 02	4 5			L   S   L   O   O   S	TSC 244 TSC 17/1 17/1		G14 *16 G14 2				LT S2 LT 07 07 07 S0	SSBB 4496 SSBB /11/ /15/ /19/	3G16 9A* 3G16 02 02	1		
-	<u> </u>	CAS	#	Param	etei										LI	во7				٧	AL	l	IB	08			,	/AL		LIBC	8			VAI		LIB	80			١	/AL	L	180	8			V	۱L	LI	в07			V	AL
	118 87 86 84 85 91 117	-74- -86- -74- -74- -68- -94- -81-	1 F 5 F 2 C 7 F 1 2 C	Hexac Penta Carba Di-n- Butyl 5,31- Dis(2 Di-n- Benza	hloi chlo zole but; ben; ben; cct;	robe prop e /lph ylph ilon ilon ylph	tha hth obt obe nexy	ilat ala nzi	e ite idir	ie:		(B)	EHP				380 380 380 380 380 380 380 380			U U U U U U U				10 4 4 4 4 4	00. 00. 00. 00. 00. 00.		U U U U U U				390 980 390 390 390 390 390 390	o. o. o. o.		ט ט ט ט ט ט ט			9 3 3 3 3 3 3	90. 90. 90. 90. 90. 90.		U U U U U U U U U U	J		1	370 920 500 370 370 370 370 370 370	0. 0. 0. 0. 0.		7 0 0 0 0			3 3 3 3 3	880. 880. 880. 880. 880. 880.		U U U U U U	
	98 105 92	-86- -60- -52-	2 7 2 0 4 1	ceto Capro I,1-B Atraz	pher lact iphe	one am nyl	j	ika s			· .*						380 380 380 380			U		T		4	00. 00. 00.		U U U U				390 390 390 390	). ).	100000	บ บ บ บ			3 3	90. 90. 90. 90.		U U U U				370 370 370 370	o. o.		U U U			3	80. 80. 80. 80.		U U U	(4) · 蒙 (
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SVÖA	SAMPLE ID> ORIGINAL ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB3G-18 LTSSBB3G18 S244969A*2 LTSSBB3G18 07/11/02 07/15/02 07/19/02 Soil UG/KG	LTS-S-BB3H-14 LTSSBB3H14 S244969A*3 LTSSBB3H14 07/11/02 07/15/02 07/19/02 Soil UG/KG	LTS-S-BB3H-16 LTSSBB3H16 S244969A*4 LTSSBB3H16 07/11/02 07/15/02 07/19/02 Soil UG/KG	LTS-S-BB3H-18 LTSSBB3H18 S244969A*5 LTSSBB3H18 07/11/02 07/15/02 07/19/02 Soil UG/KG	LTS-S-BB31-14 LTSSBB3114 S244969*10 LTSSBB3114 07/11/02 07/15/02 07/20/02 S011 UG/KG	LTS-S-BB31-16 LTSSBB3116 S244969*11 LTSSBB3116 07/11/02 07/15/02 07/21/02 S01L UG/KG
CAS:#	Parameter	LIBO7 VAL	LIBO7 VAL	LIBO7 VAL	LIBO7 VAL	LIBOS VAL	LIBOS VAL
108-95-2	$\mathbf{I}_{12}$ , $x_1, x_2, x_3, x_4, x_5, x_5, x_5, x_6, x_6, x_6, x_6, x_6, x_6, x_6, x_6$	380. U	380. U	390. U 390. ⊍	380. ∪ 380. ∪	380. ป 380. ป	390. U 390. U
5 000 7	bis(2-Chloroethyl)ether	380. U	380. U	390. U 390. U	380. U	380. U	390. U
	2-Chlorophenol	380. U	380. U	390. U	380. U	380. U	390. U
95-48-7	2-Methylphenol (o-Cresol)	380. U	380. U 380. U	390. U	380. U	380. U	390. U
	2,2'-oxybis(1-Chloropropane)/bis(2	-chlor 380. U	380. U	390. U	380. U	380. U	390. U
	3-Methylphenol/4-Methylphenol	380. U 380. U	380. U	390. U	380. U	380. ✓ · U	390. U
1 1 1 1 1 1 1 1 1	N-Nitroso-di-n-propylamine	น และ เคราะสาย (ค.ศ. 25/25/25/25) เกษายนการเหลือ (ค.ศ. 25/25)	380. U	390. U	380. U	380. U	390. U
	Hexachloroethane	380. U 380. U	380. U	390. U	380. U	380. U	390. U
Carried States	Nitrobenzene	งที่ พ.ม.การมหั้งพระเทยนักพิทธิ์รถิตรรวจนามของอนดีวิธี วินศิลิธี วิจศิล	380. U	390. U	380. U	380. U	390. U
	Isophorone	380. U 380. U	380. U	390. U	380. U	380. U	390. U
4 4 5 5 5 5 5 5	2-Nitrophenol	380. U	380. U	390. U	380. U	380. U	390. U
	2,4-Dimethylphenol	380. U	380. U	390. U	380. U	<b>380.</b> U	390. U
	2,4-Dichlorophenol 4-Chloroaniline	380. U	380. U	390. U	380. U	<b>380.</b> U	390. U
4	bis(2-Chloroethoxy)methane	380. U	380. U	390. U	380. U	380. U	390. U
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Hexachlorobutadiene	380. U	380. U	390. U	380. U	380. U	390. U
- '	4-Chloro-3-methylphenol	380. U	380. U	390. U	380. U	380. U	390. U
1	2-Methylnaphthalene	380. U	380. U	390. U	380. U	380. U	390. U
	Hexachlorocyclopentadiene	380. U	380. U	390. U	380. U	380. U	<b>390.</b> U
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2,4,6-Trichlorophenol	380. U	380. U	<b>390.</b> U	<b>380.</b> U	380. U	390. U
	2,4,5-Trichlorophenol	940. U	960. U	980. U	940. U	940. U	980. U
	2-Chloronaphthalene	380. U	380. U	390. U	380. U	380. U	390. U
	2-Nitroaniline	940. U	960. U	980. U	940. U	940. U	980. U
1 100 800	Dimethylphthalate	380. U	380. U	390. U	380. U	380. U	390. U
	2,6-Dinitrotoluene	380. U	<b>380.</b> U	390. U	380. U	380. U	390. U
	3-Nitroaniline	940. U	960. U	980. U	ال 940.	940. U	980. U
	2,4-Dinitrophenol	940. U	960. U	980. U	940. U	940. U	980. U 980. U
	4-Nitrophenol	940. U	960. U	980. U	940. U	940. U	
132-64-9	Dibenzofuran	380. U	380. U	390. U	380. U	380. U	. 390. U 390. U
121-14-2	2,4-Dinitrotoluene	380. U	380. U	390. U	380. U	380. U	
	Diethylphthalate	<b>380.</b> U	380. U	390. U	380. U	380. U 380. U	l 390. ປ 390. ປ
7005-72-3	4-Chlorophenylphenyl ether	<b>38</b> 0. U	380. U	390. U	380, U	T T T T T T T T T T T T T T T T T T T	980. U
	4-Nitroaniline	940. U	960. U	980. U	940. U 940. U	940. U 940. U	980. U
534-52-1	2-Methyl-4,6-Dinitrophenol	940. U	960. U	980. U	possession of respectations for a section of the	940. ∪   380. ∪	390. U
and the second of the second o	Diphenylamine	380. U	380. U	390. U	380. U	380. U	390. ∪ 390. ∪
101-55-3	4-Bromophenyl-phenylether	380. U	380. ∪	<b>390.</b> U	380. U	) 	posto, pro 4.84.65. Posto 4.5. Posto P
			<u> </u>	<u> </u>	L	L	L

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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CAS # Parameter   TESOT   VAL   LESOT   VAL   LESOT   VAL   LESOT   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   LESOS   VAL   VA	ORIGINAL ID>  LAB SAMPLE ID>  ID FROM REPORT>  SAMPLE DATE>  DATE EXTRACTED>  DATE ANALYZED>  MATRIX>	LTS-S-BB3G-18 LTS-S-BB3 LTSSBB3G18 LTSSBB3H1 S244969A*2 S244969A* LTSSBB3G18 LTSSBB3H1 07/11/02 07/11/02 07/15/02 07/15/02 07/19/02 07/19/02 Soil Soil UG/KG UG/KG	4 LTSSBB3H16 5 S244969A*4	LTS-S-BB3H-18 LTSSBB3H18 S244969A*5 LTSSBB3H18 07/11/02 07/15/02 07/19/02 Soil UG/KG	LTS-S-BB31-14 LTSSBB3114 S244969*10 LTSSBB3114 07/11/02 07/15/02 07/20/02 Soil UG/KG	LIS-S-BB31-16 LISSBB3116 S244969*11 LISSBB3116 07/11/02 07/15/02 07/21/02 Soil UG/KG
87-86-5       Pentachlorophenol       940. U       960. U       980. U       940. U       940. U       980. U         86-74-8       Carbazole       380. U       390. U       350. U       380. U       390. U       390. U       380. U       380. U       390. U       390. U       380. U       380. U       390. U	CAS # Parameter	LIBO7 VAL LIBO7	VAL LIBO7 VAL	LIBO7 VAL	LIBO8 VAL	LIBO8 VAL
	87-86-5 Pentachlorophenol 86-74-8 Carbazole 84-74-2 Di-n-butylphthalate 85-68-7 Butylbenzylphthalate 91-94-1 3,3'-Dichlorobenzidine 117-81-7 bis(2-Ethylhexyl)phthalate (BEHP) 117-84-0 Di-n-octylphthalate 100-52-7 Benzaldehyde 98-86-2 Acetophenone 105-60-2 Caprolactam 92-52-4 1,1-Biphenyl	940. U 960. 380. U 380. 380. U 380. 380. U 380. 380. U 380. 380. U 380. 380. U 380. 380. U 380. 380. U 380. 380. U 380. 380. U 380. 380. U 380.	U 980. U U 62. J U 390. U U 390. U U 390. U U 390. U U 390. U U 390. U U 390. U U 390. U U 390. U U 390. U U 390. U U 390. U	940. U 380. U 35. J 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	940. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	980. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U
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# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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S	VOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB3I-18 LTSSBB3I18 S244969*12 LTSSBB3I18 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-S-BB3J-10 LTSSBB3J10 S244969*6 LTSSBB3J10 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-C-BB3J-10 LTSCBB3J10 S244969*7 LTSCBB3J10 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-S-BB3J-12 LTSSBB3J12 S244969*8 LTSSBB3J12 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-S-BB3J-14 LTSSBB3J14 S244969*9 LTSSBB3J14 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-S-BB3K-10 LTSSBB3K10 S244969*3 LTSSBB3K10 07/11/02 07/15/02 07/19/02 Soil UG/KG
-	CAS #	Parameter	LIBO8 VAL	LIBOS VAL	LIBO8 VAL	LIBO8 VAL	LIBOS VAL	LIBOS VAL
	108-95-2	Phenol	380. U	390. U	400. U	390. U	380. U 380. U	410. U 410. U
		bis(2-Chloroethyl)ether	380. U	<b>3</b> 90. U	400. U	390. ∪ 390. ∪	380. U	410. U
1	95-57-8	2-Chlorophenol	<b>380.</b> U	390. U	400. U 400. U	390. U	380. U	410. U
	95-48-7	2-Methylphenol (o-Cresol)	380. U	390. U 390. U	400. U 400. U	390. U	380. U	410. U
		2,2'-oxybis(1-Chloropropane)/bis(2-	chlor 380. U 380. U	390. U	400. U	390. U	380. U	410. U
99		3-Methylphenol/4-Methylphenol	380. U	390. U	400. U	390. U	380. U	410. U
		N-Nitroso-di-n-propylamine Hexachloroethane	380. U	390. U	400. U	390. U	380. U	410. U
	2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Nitrobenzene (	380. U	390. U	400. U	390. U	380. U	410. U
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Isophorone	380. U	390. U	400. U	390. U	380. U	410. U
	2.4	2-Nitrophenol	380. U	390. U	400. U	390. U	380. U	410. U
		2,4-Dimethylphenol	380. U	390. U	400. U	390. ∪	380. U	410. U
		2,4-Dichlorophenol	380. U	. 390. U	400. U	390. U	380. U	410. U
		4-Chloroaniline	380. U	390. U	400. U	390. U	380. U	410. U 410. U
	111-91-1	bis(2-Chloroethoxy)methane	380. U	390. U	400. U	390. U	380. U 380. U	410. U
		Hexach Lorobutadiene	380. U	390. ∪	400. U	390. U 390. U	380. U	410. U
1.		4-Chloro-3-methylphenol	380. U	390. U	400. U	390. U 390. U	380. U	410. Ú
		2-Methylnaphthalene	380. U	390. U	400. U - 400. U	390. U	380. U	410. U
		Hexachlorocyclopentadiene	380. U	390. U 390. U	400. U	390. U	380. U	410. U
		2,4,6-Trichlorophenol	380. U 940. U		1000. U	980. U	950. U	1000. U
		2,4,5-Trichlorophenol	380. U	980. U 390. U	400. U	390. U	380. U	410. U
		2-Chloronaphthalene 2-Nitroaniline	940. U	980. U	1000. U	980. U	950. U	1000. U
		Dimethylphthalate	380.	390. U	400. U	390. ∪	380. U	410. U
		2,6-Dinitrotoluene	380. U	390. U	400. U	. 390. U	380. U	410. U
		3-Nitroaniline	940. U	980. U	1000. U	980. U	950. U	1000. U
		2,4-Dinitrophenol	940. U	980. U	1000. U	980. U	950. U	1000. U
		4-Nitrophenol	940. U	980. U	1000. U	980. U	950. U	1000. U
1		Dibenzofuran	380. U	390. U	400. U	390. U	380. U	410. U
-	121-14-2	2,4-Dinitrotoluene	380. U	390. U	400. U	390. ∪	380. U 380. U	410. U 410. U
	1. 1.03.	Diethylphthalate	380. U	390. U	400. U	390. U	380. U 380. U	410. U
	• 1	4-Chlorophenylphenyl ether	380. U	390. U	400. U	390. U 980. U	950. U	1000. U
		4-Nitroaniline	940. U	980. U	1000. U 1000. U	980. U	950. U	1000. U
, -		2-Methyl-4,6-Dinitrophenol	940. U 380. U	980. U 390. U	400. U	390. U	380. U	410. U
	4 (5) 5 (4)	Diphenylamine	380. U	390. U	400. U	390. U	380. U	410. U
	101-55-5	4-Bromophenyl-phenylether	Jou. U			Processor Company of the Company of	particular on the material states of the second of the sec	1

# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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	SVOA		SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT SAMPLE DATE DATE EXTRACTED DATE ANALYZED MATRIX UNITS	LTSSBB3118 S244969*12 LTSSBB3118 07/11/02 07/15/02 07/20/02 Soil	3	LTS-S-BB3J-10 LTSSBB3J10 S244969*6 LTSSBB3J10 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-C-BB3J-10 LTSCBB3J10 S244969*7 LTSCBB3J10 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-S-BB3J-12 LTSSBB3J12 S244969*8 LTSSBB3J12 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-S-BB3J-14 LTSSBB3J14 S244969*9 LTSSBB3J14 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-S-BB3K-10 LTSSBB3K10 S244969*3 LTSSBB3K10 07/11/02 07/15/02 07/19/02 Soil UG/KG
L	CAS	# Parameter		LIB08	VAL	LIBOS VAL	LIBO8 VAL	LIBO8 VAL	LIBOS VAL	LIBOS VAL
	87-86- 86-74-1 84-74- 85-68- 91-94- 117-81- 117-84-( 100-52-1 98-86-6	/ bis(2-Ethylhex) Di-n-octylphth / Benzaldehyde Acetophenone	nol alate halate enzidine yl)phthalate (BEHP)	380. 940. 380. 380. 380. 380. 380. 380. 380. 380.	U U U U U U U U U U U U U U U U U U U	390. U 980. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U	400. U 1000. U 400. U 400. U 400. U 400. U 400. U 400. U 400. U 400. U	390. U 980. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U	380. U 950. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	410. U 1000. U 410. U 410. U 410. U 410. U 410. U 410. U 410. U 410. U 410. U
	92-52-2	Caprolactam 1,1-Biphenyl Atrazine		380. 380. 380.	U U U	390. U 390. U 390. U	400. U 400. U 400. U	390. U 390. U 390. U	380. U 380. U 380. U	410. U 410. U 410. U

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SVOA - SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT SAMPLE DATE DATE EXTRACTED MATRIX UNITS	> LTSSBB3K12 > \$244969*4 > LTSSBB3K12 > 07/11/02 > 07/15/02 > 07/20/02	LTS-S-BB3K-14 LTSSBB3K14 S244969*5 LTSSBB3K14 07/11/02 07/15/02 07/22/02 Soil UG/KG	LTS-S-BC02-12 LTSSBC0212 S242909*13 LTSSBC0212 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BC04-22 LTSSBC0422 S242909*11 LTSSBC0422 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-C-BC04-22 LTSCBC0422 S242909*12 LTSCBC0422 04/26/02 05/01/02 05/03/02 Soil UG/KG	
CAS # Parameter	LIBO8 VAL	LIBO8 VAL	209315 VAL	209315 VAL	209315 VAL	
108-95-2 Phenol	380. U	380. U	380. U	380. U	390. U	
111-44-4 bis(2-Chloroethyl)ether	380 U	380. U	380. U	380. U	390. U 390. U	
95-57-8 2-Chlorophenol	380. U	380. U	380. U	380. U 380. U	390. U	feet of the state of
95-48-7 2-Methylphenol (o-Cresol)	380. U	380. U 380. U	380. U 380. U	380. U	390. U	
108-60-1 2,2'-oxybis(1-Chloropropane)/bis(		380. U 380. U	380. U	380. U	390. U	
9999900-32-2 3-Methylphenol/4-Methylphenol	380. U 380. U	380. U	380. U	380. U	390. U	
621-64-7 N-Nitroso-di-n-propylamine	380. U	380. U	380. U	380. U	390. U	
98-95-3 Nitrobenzene	380. U	380. U	380. U	380. U	<b>3</b> 90. ∶U	
78-59-1 Isophorone	380. U	380. U	380. U	380. U	390. U	Bridge Hallman in A
88-75-5   2-Nitrophenol	380. U	380. U	380. U	380. U	390. U	23 - 1 - 1
105-67-9 2,4-Dimethylphenol	380. U	380. U	380. U	380. U	390. U	
120-83-2 2,4-Dichlorophenol	380. U	380. U	380. U	380. U	390. U	sasandaren harria da d
106-47-8 4-Chloroaniline	380. U	380. U	380. U	380. U	390. U 390. U	
111-91-1 bis(2-Chloroethoxy)methane	380. U	380. U	380. U	380. U 380. U	390. U	Santario de la compania de la compania de la compania de la compania de la compania de la compania de la compa
87-68-3 Hexachlorobutadiene	380. U	380. U 380. U	380. U 380. U	380. U	390. U	
59-50-7 4-Chloro-3-methylphenol	380. U 380. U	່ 380. ປ 380. ປ	380. U	380. U	390. Ü	
91-57-6 2-Methylnaphthalene	380. U 380. U	380. U	380. U	380. U	390. U	· ·
77-47-4 Hexachlorocyclopentadiene	380. U	380. U	380. U	380. U	390. U	
88-06-2 2,4,6-1richtorophenol 95-95-4 2,4,5-Trichtorophenol	960. U	940. U	960. U	940. U	990. U	
91-58-7 2-Chloronaphthalene	380. U	380. U	380. U	380. U	390. U	
88-74-4 2-Nitroaniline	960. · U	940. U	960. U	940. U	ال 990.	o satisfaciologia, distribute si "" s
131-11-3 Dimethylphthalate	380. U	380. ∪	380. U	380. U	390. ∪	
606-20-2 2,6-Dinitrotoluene	<b>380.</b> U	380. U	380. U	380. U	390. U	er verification and the first section of
99-09-2 3-Nitroaniline	960. U	940. U	960. U	940. U	990. U	
51-28-5 2,4-Dinitrophenol	960. U	940. U	960. U	940. U	990. U 990. U	Berger Berger
100-02-7 4-Nitrophenol	960. U	940. U	960. U	940. U 380. U	990. U 390. U	
132-64-9 Dibenzofuran	380. U	380. U	380. U	\$5555555555555555555555555555555555555	390. U	
121-14-2 2,4-Dinitrotoluene	380. U	380. U	380. U 380. U	380. U 380. ∪	390. U	don recombinational environment of a control of a control of
84-66-2 Diethylphthalate	380. U 380. U	380. U	380. U	380. U	390. U	
7005-72-3 4-Chlorophenylphenyl ether	380. U 960. U	940. U	960. U	940. U	990. U	1
100-01-6 4-Nitroaniline 534-52-1 2-Methyl-4,6-Dinitrophenol	960. U	1 2002-10 mm at 10.	960. U	940. Ū	990. U	
122-39-4 Diphenylamine	380. U	380. U	380. U	380. U	390. U	
101-55-3 4-Bromophenyl-phenylether	380. U	380.	380. U	380. U	390. U	

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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SVOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> LAB SAMPLE ID> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB3K-12 LTSSBB3K12 S244960*4 LTSSBB3K12 07/11/02 07/15/02 07/20/02 Soil UG/KG	LTS-S-BB3K-14 LTSSBB3K14 S244960*5 LTSSBB3K14 07/11/02 07/15/02 07/22/02 Soil UG/KG	LTS-S-BC02-12 LTSSBC0212 S242909*13 LTSSBC0212 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-S-BC04-22 LTSSBC0422 S242909*11 LTSSBC0422 04/26/02 05/01/02 05/03/02 Soil UG/KG	LTS-C-BC04-22 LTSCBC0422 S242909*12 LTSCBC0422 04/26/02 05/01/02 05/03/02 Soil UG/KG	
CAS #	Parameter	L1808 VAL	LIBOS VAL	209315 VAL	209315 VAL	209315 VAL	
87-86-5 86-74-8 84-74-2 85-68-7 91-94-1 117-81-7 117-84-0 100-52-7 98-86-2 105-60-2	Hexachlorobenzene Pentachlorophenol Carbazole Di-n-butylphthalate Butylbenzylphthalate 3,3'-Dichlorobenzidine bis(2-Ethylhexyl)phthalate (BEHP) Di-n-octylphthalate Benzaldehyde Acetophenone Caprolactam 1,1-Biphenyl Atrazine	380. U 960. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	380. U 960. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	380. U 940. U 76. J 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U 380. U	390. U 990. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U 390. U	

## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT - SAMPLE DATE DATE EXTRACTED MATRIX UNITS	-> 209315-010 -> LTSCBB0118 -> 04/26/02 -> 04/26/02 -> 05/07/02	LTS-S-BB01-18 LTSSBB0118 209315-009 LTSSBB0118 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-S-BB02-18 LTSSBB0218 209315-007 LTSSBB0218 04/26/02 04/26/02 05/06/02 Soil UG/KG	LTS-S-8802-25 LTSS880225 209315-008 LTSS880225 04/26/02 04/26/02 05/06/02 Soil UG/KG	LTS-S-BB03-05 LTSSBB0305 209315-013 LTSSBB0305 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-S-BB03-14 LTSSBB0314 209315-014 LTSSBB0314 04/26/02 04/26/02 05/07/02 Soil UG/KG
	CAS #	Parameter	209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL
7	7/ - 07-7	Chloromethane	9. U	9. U	8. U	9. U	9. U	9. U , '
1	100 1 100	Bromomethane	9. Ŭ	9. U	8. U	9. U	9. U	9. U
1	20 57 0	Vinyl chloride	9 11	9. U	8. U	9. U	9. U	9. U
		Chloroethane	9.00	9. U	8. U	9. ∪	9. U	9. U
1		Methylene chloride	9- U	9. U	8. U	9. U	9. U	9. U
		Acetone	. Ulawa 1914 (Bush 1964)	10.	10.	14.	26	23.
		Carbon disulfide	9. U	9. U	8. U	9. U	9. U	9. U
		1,1-Dichloroethene	9. U	9. U	8. U	9. U	9: Ü	9. Ü
		1,1-Dichloroethane	9. U	9. U	8. U	9. U	g. U o	9. U
6	7-66-3	Chloroform	9. U	9. U	8. U	9 U	9. U	9.
10	7-06-2	1,2-Dichloroethane	9. U	9. U	8. U	9. U	9. U	9. U
7	8-93-3	2-Butanone (MEK)	9. U	9. U	8. U	9. U	9. U	j
7	1-55-6	1,1,1-Trichloroethane	9. U	9. U	8. U	9. U	J 9. U	9. U
5	6-23-5	Carbon tetrachloride	9. U	9. U	8. U	9, U	9. U	Bayeria (17.40), alaa (11.10). 
		Bromodichloromethane	9. U	. 9. U	8. U	9. U	9. U 9. U	<b>ં ું</b> ં ં
		1,2-Dichloropropane	9. U	9. U	8. U	9. U	9. U	9. U
1	2 3054	cis-1,3-Dichloropropene	9. U	9. U	8. U	9. U 9. U	9. +0	9. Ü
-1		Trichloroethene	9. U	9. U 9. U	8. U	9. U	9. U	9. U
		Dibromochloromethane	9. U		8. Ŭ	وَ وَ وَ وَ الْحَالَ وَ الْحَالَ وَ الْحَالَ الْحَالَ الْحَالَ الْحَالَ الْحَالَ الْحَالَ الْحَالَ ا	9	9 0
		1,1,2-Trichloroethane	. Tark (A.S., 1811) ( <b>99</b> 0) (813) ( <b>9</b> 00)	9. U	8. U	9. U	9. U	9. U
		Benzene trans-1,3-Dichloropropene	9. Ŭ	<b>່</b> . ບໍ່	8. Ü	9, 0	9. 0	9. 0
1		Bromoform	9 11	9. U	8. U	9. U	9. U	9. U
1		4-Methyl-2-Pentanone (MIBK)	9. Ŭi	9. Ŭ	8. U	9. U	9. UJ	9. UJ
		2-Hexanone	9. UJ	9. U	8. U	9. U	9. UJ	9. UJ:
	4.4	Tetrachloroethene	9. 01	9. 0	8. ∪	9. U	9. UJ	9. UJ
		1,1,2,2-Tetrachloroethane	9. UJ	9. U	8. U	9. U	9. UJ	9. UJ
1		Toluene	9. UJ	9. U	8. U	9. U	9. UJ	9. UJ
1		Chlorobenzene	9. UJ	9. U	8. U	9. U	9. UJ	9. UJ
		Ethylbenzene	9. UJ	9. ن	8. U	9. U	9. UJ	9. UJa
1		Styrene	9. UJ	9. U	8. U	9. U	9. UJ	9. UJ
		Xylene (Total)	9. UJ	9. U	8. U	9. U	9. UJ	9. ∪0
15	6-59-2	cis-1,2-Dichloroethene	9. U	9. U	8. U	9. U	9. U	9. U 9. U
		trans-1,2-Dichloroethene	9. U	9. 0	8. U	9. U	9. U	9. U
1	,	Methyl tert-butyl ether	9. U	9. U	8. U	9. U	9. 0	9. U
7:	5-71-8	Dichlorodifluoromethane		9.	8. U	9∪	9	person i i i i <del>Zit</del> a i i i i i i i i i i i i i i i i i i i

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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<b>VOA</b>	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> MATRIX> UNITS>	LTS-C-BB01-18 LTSCBB0118 209315-010 LTSCBB0118 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-S-BB01-18 LTSSBB0118 209315-009 LTSSBB0118 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-S-BB02-18 LTSSBB0218 209315-007 LTSSBB0218 04/26/02 04/26/02 05/06/02 Soil UG/KG	LTS-S-BB02-25 LTSSBB0225 209315-008 LTSSBB0225 04/26/02 04/26/02 05/06/02 Soil UG/KG	LTS-S-BB03-05 LTSSBB0305 209315-013 LTSSBB0305 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-S-BB03-14 LTSSBB0314 209315-014 LTSSBB0314 04/26/02 04/26/02 05/07/02 Soil UG/KG
CAS #	Parameter	209315 VAL					
76-13-1 79-20-9 110-82-7	Trichlorofluoromethane Trichlorotrifluoroethane (Freon 113 Methyl Acetate Cyclohexane Methyl Cyclohexane	9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 9. U	8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U
106-93-4 98-82-8 541-73-1 106-46-7	1,2-Dibromoethane Isopropylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene	9. UJ 9. UJ 9. UJ 9. UJ 9. UJ	9. U 9. U 9. U 9. U 9. U	8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U	7: UJ 9: UJ 9: UJ 9: UJ 9: UJ	9. UJ 9. UJ 9. UJ 9. UJ 9. UJ
96-12-8	1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene	9. UJ 9. UJ	9. U 9. U	8. U 8. U	9. U 9. U 9. U	9. UJ 9. UJ 9. UJ	9. UJ 9. UJ

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

DATALCP3

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VOA SAMPLE ID ORIGINAL ID LAB SAMPLE ID ID FROM REPORT SAMPLE DATE DATE EXTRACTED DATE ANALYZED MATRIX UNITS	> 209315-011 > LTSSBB0417 > 04/26/02 > 04/26/02 > 05/06/02	LTS-S-BB04-25 LTSSBB0425 209315-012 LTSSBB0425 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-S-BB3B-12 LTSSBB3B12 210127-003 LTSSBB3B12 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3B-14 LTSSBB3B14 210127-004 LTSSBB3B14 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3B-16 LTSSBB3B16 210127-005 LTSSBB3B16 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3C-12 LTSSBB3C12 210127-006 LTSSBB3C12 06/07/02 06/07/02 06/12/02 Soil UG/KG
CAS # Parameter	209315 VAL	209315 VAL	210127 VAL	210127 VAL	210127 VAL	210127 VAL
74-87-3 Chloromethane	8. U	9. U	10. U	8. U	8. UJ	8. UJ
74-83-9 Bromomethane	8. U	9. U	10. U	8. U	8. UJ	8. UJ
75-01-4 Vinyl chloride	8. U	9. U	10. U	8. U	8. UJ	8. UJ
75-00-3 Chloroethane	8. U	9. U	10. U	8. U	8. UJ	8. UJ
75-09-2 Methylene chloride	8. U	9. U	10. U	8. U	- 8. UJ	8. UJ
67-64-1 Acetone	14.	11.	13. J	8. U	8. UJ	10.
75-15-0 Carbon disulfide	8. U -	9. U	10. U	8. U	8. UJ	8. UJ
75-35-4 1,1-Dichloroethene	8. U	9. U	10. U	8. U	8. UJ	8. UJ
75-34-3 1,1-Dichloroethane	8. U	9. U	10. U	8. U	8. UJ	8. UJ
67-66-3 Chloroform	8. U	9. U	10. U	8. ∪	8. UU	8. UJ
107-06-2 1,2-Dichloroethane	8. U	9. U	10. U	8. υ	8. UJ	8. UJ
78-93-3 2-Butanone (MEK)	8. ∪	9. U	10. U	8. ∪ .	8. UJ	8. ÚJ
71-55-6 1,1,1-Trichloroethane	8. U	9. U	10. U	<b>8.</b> U	8. UJ	8. UJ
56-23-5 Carbon tetrachloride	8. U	9. U	10. U	8. ∪	8. ÚJ	8. UJ
75-27-4 Bromodichloromethane	8. U	9. U	10. U	8. U	8. UJ	8. UJ
78-87-5 1,2-Dichloropropane	8, U	9. 0	10. U	8. U	8. UJ	8. UJ
10061-01-5 cis-1,3-Dichloropropene	8. U	9. U	10. U	8. U	8. UJ	8. UJ
79-01-6 Trichloroethene	8. U	9. U	10. U	8. U	8. UJ	8. UJ
124-48-1 Dibromochloromethane	8, U	9. U	10. U	8. U	8. UJ	8. UJ 8. UJ
79-00-5 1,1,2-Trichloroethane	8. U	9. U	10. U	8. U	8. UJ	*
71-43-2 Benzene	8. U	9. · U	10. U	8. U	-8. UJ	8. UJ 8. UJ
10061-02-6 trans-1,3-Dichloropropene	8. U	9. ∪	10. U	8. U	8. UJ	perior estate to the
75-25-2 Bromoform	8. U	9. U	10' U	8. UJ	8. UJ	8. UJ
108-10-1 4-Methyl-2-Pentanone (MIBK)	8. U	9. UJ	10. U	8. U	8. UJ	8. UJ
591-78-6 2-Hexanone	8. U	9. Uj	10. U	8. U	8. UJ	8. UJ
127-18-4 Tetrachtoroethene	8, 0	9. UJ	10. U	8. ∪	T	I
79-34-5 1,1,2,2-Tetrachloroethane	8. U	9. UJ '	10. U	8. UJ	8. UJ	8. UJ 8. UJ
108-88-3 Toluene	8. U	9. UJ	10. U	8. U	8. UJ	100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to
108-90-7 Chlorobenzene	8. U	9. UJ	10. U	8. UJ	8. UJ	8. UJ 8. UJ
100-41-4 Ethylbenzene	8. U	9. UJ	10. U	8. UJ	8. UJ	r
100-42-5 Styrene	8. U	9. UJ	10. U	8. UJ	8. UJ	8. UJ 8. UJ
1330-20-7 Xylene (Total)	8. U	9. UJ	10. U	8, UJ	8. UJ	1 2"
156-59-2 cis-1,2-Dichloroethene	8. U	9. U	10. U	8. U	8. UJ 8. UJ	8. UJ 8. UJ
156-60-5 trans-1,2-Dichtoroethene	8. U	9. U	10. U	8. U	8. UJ 8. UJ	8. UJ
1634-04-4 Methyl tert-butyl ether	. North and the contraction to the second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the s	9. U	10. U	8. U 8. U	8. UJ 8. UJ	8. UJ
75-71-8 Dichlorodifluoromethane	8. U	9. U	10. U	O. U		

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID> ORIGINAL ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> MATRIX> UNITS>	LTS-S-BB04-17 LTSSBB0417 209315-011 LTSSBB0417 04/26/02 04/26/02 05/06/02 Soil UG/KG	LTS-S-BB04-25 LTSSBB0425 209315-012 LTSSBB0425 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-S-BB3B-12 LTSSBB3B12 210127-003 LTSSBB3B12 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3B-14 LTSSBB3B14 210127-004 LTSSBB3B14 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3B-16 LTSSBB3B16 210127-005 LTSSBB3B16 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3C-12 LTSSBB3C12 210127-006 LTSSBB3C12 06/07/02 06/07/02 06/12/02 Soil UG/KG
CAS	# Parameter	209315 VAL	209315 VAL	210127 VAL	210127 VAL	210127 VAL	210127 VAL
76-13 79-20 110-82 108-87 106-93 98-82 541-73 106-46 95-50 96-12	7-4 Trichlorofluoromethane 1 Trichlorofluoromethane (Freon 11) 1-9 Methyl Acetate 1-7 Cyclohexane 1-2 Methyl Cyclohexane 1-4 1,2-Dibromoethane 1 Isopropylbenzene 1 1,3-Dichlorobenzene 1 1,4-Dichlorobenzene 1 1,2-Dibromo-3-Chloropropane 1 1,2-Dibromo-3-Chloropropane	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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1 08/23/02	Magazines	Bravo and Ch	narlie Soil Sa	amples		
VOA SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> MATRIX> UNITS>	LTSSBB3C14 210127-007 LTSSBB3C14 06/07/02 06/07/02 06/13/02	LTS-S-BB3C-16 LTSSBB3C16 210127-008 LTSSBB3C16 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3D-12 LTSSBB3D12 210146-001 LTSSBB3D12 06/07/02 06/08/02 06/14/02 Soil UG/KG	LTS-S-BB3D-14 LTSSBB3D14 210146-002 LTSSBB3D14 06/07/02 06/08/02 06/13/02 Soil UG/KG	LTS-C-BB3D-16 LTSCBB3D16 210146-004 LTSCBB3D16 06/07/02 06/08/02 06/14/02 Soil UG/KG	LTS-S-BB3D-16 LTSSBB3D16 210146-003 LTSSBB3D16 06/07/02 06/08/02 06/14/02 Soil UG/KG
CAS # Parameter	210127 VAL	210127 VAL	210146 VAL	210146 VAL	210146 VAL	210146 VAL
74-87-3 74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-35-4 75-34-3 67-66-3 107-06-2 1,2-Dichloroethane 78-93-3 2-Butanone (MEK) 71-55-6 1,1,1-Trichloroethane 78-87-5 10061-01-5 79-01-6 124-48-1 179-00-5 71-43-2 10061-02-6 75-25-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 79-34-5 108-88-3 108-90-7 100-41-4 100-42-5 1330-20-7 Xylene (Total)	9. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 12. 9. U 9. U 9. U 9. U 9. U 9. U 9. U 9.
156-59-2 cis-1,2-Dichloroethene 156-60-5 trans-1,2-Dichloroethene 1634-04-4 Methyl tert-butyl ether 75-71-8 Dichlorodifluoromethane	9. U 9. U 9. U 9. U	8. UJ 8. UJ 8. UJ 8. UJ	9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U	9. U 9. U 9. U

# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	06/07/02 06/13/02 Soil	LTS-S-BB3C-16 LTSSBB3C16 210127-008 LTSSBB3C16 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3D-12 LTSSBB3D12 210146-001 LTSSBB3D12 06/07/02 06/08/02 06/14/02 Soil UG/KG	LTS-S-BB3D-14 LTSSBB3D14 210146-002 LTSSBB3D14 06/07/02 06/08/02 06/13/02 Soil UG/KG	LTS-C-BB3D-16 LTSCBB3D16 210146-004 LTSCBB3D16 06/07/02 06/08/02 06/14/02 Soil UG/KG	LTS-S-BB3D-16 LTSSBB3D16 210146-003 LTSSBB3D16 06/07/02 06/08/02 06/14/02 Soil UG/KG
75-69-4 76-13-1 79-20-9 110-82-7 108-87-2 106-93-4 98-82-8 541-73-1 106-46-7 95-50-1	Trichlorofluoromethane Trichlorotrifluoroethane (Freon 11: Methyl Acetate Cyclohexane Methyl Cyclohexane 1,2-Dibromoethane Isopropylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene	9. U	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U

# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	210701-028 LTSSBB3D18 07/11/02 07/13/02 07/18/02 Soil	LTS-S-BB3E-12 LTSSBB3E12 210127-009 LTSSBB3E12 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3E-14 LTSSBB3E14 210127-010 LTSSB5E14 06/07/02 06/07/02 06/13/02 Soil UG/KG	LTS-S-BB3E-16 LTSSBB3E16 210127-011 LTSSBB3E16 06/07/02 06/07/02 06/13/02 Soil UG/KG	LTS-S-BB3F-14 LTSSBB3F14 210701-025 LTSSBB3F14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3F-16 LTSSBB3F16 210701-026 LTSSBB3F16 07/11/02 07/13/02 07/18/02 Soil UG/KG
CA	S # Parameter	210701 VAL	210127 VAL	210127 VAL	210127. VAL	210701 VAL	210701 VAL
74-8	7-3 Chloromethane	9. U	9. U	9. U	9. U	8. U	9. U
74-8	3-9 Bromomethane	9. U	9. U	9. U	9. U	8. U	9. U 9. U
75-0	1-4 Vinyl chloride	9. U	9. U	9. U	9. U	8. U	9. 0
75-0	0-3 Chloroethane	9. ∪	9. U	9. U	9, ∪	8. U 8. U	9. U
75-0	9-2 Methylene chloride	9. U	9. U	9. U	enari saga i ing	l es a sulla de la compania de la compania de la compania de la compania de la compania de la compania de la c	14.
	4-1 Acetone	14.	11.	12. J	9. U	8. U	
	5-0 Carbon disulfide	9. U	9. U	9. U	9. U	8. U 8. U	<b>,</b>
	5-4 1,1-Dichloroethene	9. ∪	9. U	9, U	9. U	8. U	9. U
	4-3 1,1-Dichloroethane	9. U	9. U	9. U	9. U 9. U		
	6-3 Chloroform	9. U	9. U	9. U	9. U	8. U	9. U
1	6-2 1,2-Dichloroethane	9. U	9. U	9. U	9. U	នី ប៉	ģ. U
	3-3 2-Butanone (MEK)	9. U	9. U	9. U 9. U	9. U	8. U	9 . U
	5-6 1,1,1-Trichloroethane	9. U	ງ. ບ 	, 9. U	و ان بار فران	i i i i i i i i i i i i i i i i i i i	် တိုင်းမျိုး
	3-5 Carbon tetrachloride	9. U	, , , ,	9. U	9. U	8. U	9. U
	7-4 Bromodichloromethane	9. U	9. U 9. U	9. U	9. Ü	8. Ŭ	9. 0
	7-5 1,2-Dichloropropane	9. U	9. U 9. U	9. U	9. U	8. U	9. U
	1-5 cis-1,3-Dichloropropene	9. 0	9	9. Ü	ý. Ŭ	8. Ú	9. Ü
1	1-6 Trichloroethene	9. U	9. U	9. U	9. U	8. U	9. U
	8-1 Dibromochloromethane	9. 0	j i			8. U	9. U
I .	0-5 1,1,2-Trichloroethane	9. 0	9. U	9. U	9. U	8. U	9. U
	3-2 Benzene	j j	9. Ú	9. U	9. U	8. U	9.
	2-6 trans-1,3-Dichloropropene 5-2 Bromoform	9. 1 U	9. U	9. UJ	9. U	8. U	9. U
	0-1 4-Methyl-2-Pentanone (MIBK)	9. Ŭ	9. Ŭ	9. U	9. U	8. U	9, U
	8-6 2-Hexanone	9. U	9. U	9. U	9. U	8. U	9. U
1 .	8-4 Tetrachloroethene	9.	9. Ú	9. U	9. U	8. U	9. 0
	4-5 1,1,2,2-Tetrachloroethane	9. U	9. U	9. UJ	9. U	8. U	- 9. U
1	8-3 Toluene	ن في الله الله الله الله الله الله الله الل	9	9. U	9. U	8. U	9. U
1	0-7 Chlorobenzene	9. U	ا 9. نا	9. UJ	9. U	8, U	9. U
	1-4 Ethylbenzene	9. U	9. U	9. UJ	9. U	8. U	9.
	2-5 Styrene	9. U	9. U	9. UJ	9. U	8. U	9. U
	0-7 xylene (Total)	9. Ū	9. U	9. UJ	9, U	8. U	9. U
	9-2 cis-1,2-Dichloroethene	9. U	9. U	9. U	9. U	8. , U	9. U
	0-5 trans-1,2-Dichloroethene	<b>9.</b> Ü	9. U	9. U	9. U	8. U	9. U
	4-4 Methyl tert-butyl ether	9. U	9. U	9. U	9. U	8. U	9. U 040-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
	1-8 Dichlorodifluoromethane	9. U	9. U	9. U	9. U	8. U	9. ⊍
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION (agazines Bravo and Charlie Soil Samples

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		Magazines	Bravo and Ch	arlie Soil Sa	amples	<u> </u>	
VOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTSSBB3D18 210701:028 LTSSBB3D18 07/11/02 07/13/02 07/18/02 Soil	LTS-5-8B3E-12 LTSSB3E12 210127-009 LTSSB3E12 06/07/02 06/07/02 06/12/02 Soil UG/KG	LTS-S-BB3E-14 LTSSBB3E14 210127-010 LTSSBB3E14 06/07/02 06/07/02 06/13/02 Soil UG/KG	LTS-S-BB3E-16 LTSSBB3E16 210127-011 LTSSBB3E16 06/07/02 06/07/02 06/13/02 Soil UG/KG	LTS-S-BB3F+14 LTSSBB3F14 210701-025 LTSSBB3F14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3F-16 LTSSBB3F16 210701-026 LTSSBB3F16 07/11/02 07/13/02 07/18/02 Soil UG/KG
CAS: #	Parameter	210701 VAL	210127 VAL	210127 VAL	210127 VAL	210701 VAL	210701 VAL
76-13-1 79-20-9 110-82-7 108-87-2 106-93-4 98-82-8 541-73-1 106-46-7 95-50-1	Trichlorofluoromethane Trichlorotrifluoroethane (Freon 11 Methyl Acetate Cyclohexane Methyl Cyclohexane 1,2-Dibromoethane Isopropylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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VOA SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> MATRIX> UNITS>	LTS-S-BB3F-18 LTSSBB3F18 210701-027 LTSSBB3F18 07/11/02 07/13/02 07/18/02 Soil UG/KG	LIS-S-BB3G-10 LISSBB3G10 210701-014 LISSBB3G10 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3G-12 LTSSBB3G12 210701-015 LTSSBB3G12 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3G-14 LTSSBB3G14 210701-016 LTSSBB3G14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-C-BB3G-14 LTSCBB3G14 210701-017 LTSCBB3G14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3G-16 LTSSBB3G16 210701-018 LTSSBB3G16 07/11/02 07/13/02 07/18/02 Soil UG/KG
CAS # Parameter	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
74-87-3 Chloromethane 74-83-9 Bromomethane 75-01-4 Vinyl chloride 75-00-3 Chloroethane 75-09-2 Methylene chloride 67-64-1 Acetone 75-15-0 Carbon disulfide 75-35-4 1,1-Dichloroethane 75-34-3 1,1-Dichloroethane 67-66-3 Chloroform 107-06-2 1,2-Dichloroethane 78-93-3 2-Butanone (MEK) 71-55-6 1,1,1-Trichloroethane	8. U 8. U 8. U 8. U 12 8. U 8. U 8. U 8. U 8. U 8. U	10. U 10, U 10. U 10. U 10. U 23. 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U	8. U 8. U 8. U 8. U 8. U 10	9. U 9. U 9. U 9. U 16. 9. U 9. U 17. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	8. U 8. U 8. U 8. U 19. 8. U 8. U 8. U 8. U 8. U	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ
56-23-5 75-27-4 Bromodichloromethane 78-87-5 1,2-Dichloropropane 10061-01-5 79-01-6 Trichloroethene 124-48-1 Dibromochloromethane 79-00-5 1,1,2-Trichloroethane Benzene	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ
10061-02-6 trans-1,3-Dichloropropene - 75-25-2 Bromoform  108-10-1 4-Methyl-2-Pentanone (MIBK) 591-78-6 2-Hexanone 127-18-4 Tetrachloroethene - 79-34-5 1,1,2,2-Tetrachloroethane 108-88-3 Toluene 108-90-7 Chlorobenzene 100-41-4 Ethylbenzene 1330-20-7 Xylene (Total) 156-59-2 cis-1,2-Dichloroethene 156-60-5 trans-1,2-Dichloroethene 1634-04-4 Methyl tert-butyl ether - 75-71-8 Dichlorodifluoromethane	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ	10, U 10, U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ

## LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTSSBB3F18 210701-027 LTSSBB3F18 07/11/02 07/13/02 07/18/02 Soil	LTS-S-BB3G-10 LTSSBB3G10 210701-014 LTSSBB3G10 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-883G-12 LTSS883G12 210701-015 LTSS883G12 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3G-14 LTSSBB3G14 210701:016 LTSSBB3G14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-C-BB3G-14 LTSCBB3G14 210701-017 LTSCBB3G14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3G-16 LTSSBB3G16 210701-018 LTSSBB3G16 07/11/02 07/13/02 07/18/02 Soit UG/KG
CAS.#	Parameter	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
76-13-1 79-20-9 110-82-7 108-87-2	Trichlorofluoromethane Trichlorotrifluoroethane (Freon 11 Methyl Acetate Cyclohexane Methyl Cyclohexane 1,2-Dibromoethane	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ	10. U 10. U 10. U 10. U 10. U	8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U 9. U	8. U 8. U 8. U 8. U 8. U	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ
98-82-8 541-73-1 106-46-7 95-50-1 96-12-8	Isopropylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene	8. UJ 8. UJ 8. UJ 8. UJ	10. U	8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U 9. U	8. U 8. U 8. U 8. U 8. U	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ
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#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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OF L/ II S/ D/ D/ M/	MPLE ID> IGINAL ID> B SAMPLE ID> FROM REPORT> MPLE DATE> TE EXTRACTED> TE ANALYZED> TRIX> ITS>	LTS-S-BB3G- LTSSBB3G18 210701-019 LTSSBB3G18 07/11/02 07/13/02 07/18/02 Soil UG/KG	18	LTS-S-B LTSSBB3 210701- LTSSBB3 07/11/0 07/13/0 07/18/0 Soil UG/KG	H14 020 H14 2	LTSSE 21070	/02 /02		LTS-S-B LTSSBB3 210701- LTSSBB3 07/11/0 07/13/0 07/18/0 Soil UG/KG	H18 022 H18 2		LTS-S- LTSSBB 210701 LTSSBB 07/11// 07/13// 07/18// Soil UG/KG	-011 3114 02 02		LTS-S- LTSSBB 210701 LTSSBB 07/11/ 07/13/ 07/18/ Soil UG/KG-	-012 3116 02 02	
CAS # Parameter		210701	VAL	210701	VA	L 21070	1	VAL	210701		VAL	210701		VAL	210701	at the tradition of	VAL
74-87-3 Chloromethane 74-83-9 Bromomethane 75-01-4 Vinyl chloride		8. 8. 8.	U U		8. U 8. U 8. U		9. 9. 9.	U U U		8. ι 8. ι	) )		8. 8. 8.	U U U		9. 9. 9.	υ υ υ
75-00-3 Chloroethane 75-09-2 Methylene chloride 67-64-1 Acetone 75-15-0 Carbon disulfide		8. 8. 10. 8.	U U U		8. U 8. U 8. U 8. U		9. 9. 13. 9.	U U U		Β. ι	J.		8. 8. 8.	U U U		9. 9. 9.	ับ บ บ
75-35-4 1,1-Dichloroethene 75-34-3 1,1-Dichloroethane 67-66-3 Chloroform 107-06-2 1,2-Dichloroethane		8. 8. 8.	U U U U		8. U 8. U 8. U 8. U		9.	U U U		3. u 3. u 3. u	,		8. 8. 8. 8.	U U U		9. 9. 9.	บ บ ย บ
78-93-3 2-Butanone (MEK) 71-55-6 1,1,1-Trichloroeth 56-23-5 Carbon tetrachlori	de	8. 8. 8.	U U		8. U 8. U 8. U		9. 9. 9.	U U U		3. ι 3. ι			8. 8. 8.	U U		9. 9.	U U
75-27-4 Bromodichloromethal 78-87-5 1,2-Dichloropropan 10061-01-5 cis-1,3-Dichloropro 79-01-6 Trichloroethene	ppene	8. 8. 8.	U Ü Ü		3. ∪ 8. ∪ 8. ∪ 3. ∪		9. 9.	บ บ บ บ		3. ( 3. ( 3. ( 3. (			8. 8. 8. 8.	U U U		9. 9. 9. 9.	บ บ บ
124-48-1   Dibromochlorometha 79-00-5   1,1,2-Trichloroetha 71-43-2   Benzene 10061-02-6   trans-1,3-Dichlorop	ine	8. 8. 8.	U U U		3. U 3. U 3. UJ		9. 9.	บ บ บ	} {	3. U 3. U 3. U			8. 8. 8.	บ บ บ		9. 9. 9.	U U
75-25-2 Bromoform 108-10-1 4-Methyl-2-Pentanor 591-78-6 2-Hexanone		8. 8. 8.	U U		3. UJ 3. UJ 3UJ		9. 9. 9.	บ บ บ		3. U 3. U	์ เม		8. 8. 8.	Λ1 Λ1 Λ1		9. 9. 9.	บ บ
127-18-4 Tetrachlonoethene 79-34-5 1,1,2,2-Tetrachlono 108-88-3 Toluene 108-90-7 Chlorobenzene		8. 8. 8.	U U U	8.000 to 8	3. UJ 3. UJ 3. UJ		9. 9.	บ บ บ	8 8	հ. Մ հ. Մ հ. Մ	J.,	ni. Adam	8. 8. 8. 8.	nn nn nn nn		9. 9.	U U U
100-41-4 Ethylbenzene 100-42-5 Styrene 1330-20-7 Xylene (Total)		8. 8.	U U	8 8	. UJ 5. UJ		9. 9. 9.	บ บ บ	8 8	ن ن . ن	J J		8. 8. 8.	กา กา กา	eskina is i	9. 9. 9.	บ บ
156-59-2 cis-1,2-Dichloroeth 156-60-5 trans-1,2-Dichloroe 1634-04-4 Methyl tert-butyl e	thene	8. 8. 8.	U U U	The state of the second	). UJ  . UJ  . UJ		9.	ט ט ע	9 8	or an interest describer of a	J		8.	UJ UJ		•	U U

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB3G-18 LTSSBB3G18 210701-019 LTSSBB3G18 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3H-14 LTSSBB3H14 210701-020 LTSSBB3H14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3H-16 LTSSBB3H16 210701-021 LTSSBB3H16 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3H-18 LTSSBB3H18 210701-022 LTSSBB3H18 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB31-14 LTSSBB3114 210701-011 LTSSBB3114 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB31-16 LTSSBB3116 210701-012 LTSSBB3116 07/11/02 07/13/02 07/18/02 Soil UG/KG
CAS # Parameter		210701 VAL					
75-69-4 Trichlorofluorom 76-13-1 Trichlorotrifluo 79-20-9 Methyl Acetate 110-82-7 Cyclohexane 108-87-2 Methyl Cyclohexa 106-93-4 1,2-Dibromoethan 98-82-8 Isopropylbenzene 541-73-1 1,3-Dichlorobenz 106-46-7 1,4-Dichlorobenz 95-50-1 1,2-Dichlorobenz 96-12-8 1,2-Dibromo-3-Ch 120-82-1 1,2,4-Trichlorob	roethane (Freon 113 ne e ene ene ene loropropane	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ	8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ 8. UJ	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U
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LIBERTYVILLE TRAINING SITE
6A & 7 FURTHER INVESTIGATION
Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB31-18 LTSSBB3118 210701-013 LTSSBB3118 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3J-10 LTSSBB3J10 210701-007 LTSSBB3J10 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-C-BB3J-10 LTSCBB3J10 210701-010 LTSCBB3J10 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3J-12 LTSSBB3J12 210701-008 LTSSBB3J12 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3J-14 LTSSBB3J14 210701-009 LTSSBB3J14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3K-10 LTSSBB3K10 210701-004 LTSSBB3K10 07/11/02 07/13/02 07/18/02 Soil UG/KG
CAS #	# Parameter	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
7/ 07 7	3 Chloromethane	8. U	8. U	8. U	10. U	8. U	10. U
	9 Bromomethane	8	8 · · · · · · · · · · · · · · · · · · ·	8. 0	10. U ·	8. U	10. U
	y Bromomethane 4 Vinyl chloride	8. U	8. U	8. U	10. U	8. U	10. U
4	4 Minyl Chloride 3 Chloroethane	8. 0	8. U	8. Ú	10. U	8. × U	10. ∪
214 424-51	2 Methylene chloride	8. U	8. U	8. U	10, U	8. U	10. U
1.7	2 Metnylene chloride 1 Acetone	10.	11.	10.	18.	8. U	12.
	Acetone     Carbon disulfide	8. U	8. U	8 U	ال 10.	8. U	10. U
4	Ulcarbon disultide 4.1.1-Dichloroethene	8. Ŭ	8. Ü	8. Ü	10. U	8. U	10. U
	3 1,1-Dichloroethene	8. U	8. U	8. U	10. U.	8. U	10. U
15 15	3   , -Dichtoroethane 3 Chloroform	8. U	8. U	8. U	10. U	8. U	10. ∪
	2   1,2-Dichloroethane	8. U	8. U	8. U	10. U	8. U	10. U
	2  ,2-Dichloroethane 3  2-Butanone (MEK)	8. U	8. U	8. U	10. U	8. U	10. U
	5 2-Butanone (MEK) 6   1,1,1-Trichloroethane	8. U	8. U	8. U	10. U	8. U	10. U
	5 1,1,1-Irichloroethane 5 Carbon_tetrachloride	8. 0	8. ŭ	8. Ü	10. U	8. U	10. U
	Carbon tetrachtoride: 	8. U	8. U	8. U	10. U	8. U	10. U
		8. U	8. 0	8. U	10. U	8. U	10. U
	5 1,2-Dichtoropropage	8. U	8. U	8. U	10. U	8. U	10. U
Annual Control of the	5 cis-1,3-Dichloropropene	8. U	8. 0	8. U	10. U	8. U	10. U
	5 Trichloroethene	8. U	8. U	8. U	10. U	8. U	10. U
	1 Dibromochloromethane	િ કું ે	8.	8. Ü	10. Ü	8. Ü	10. U
	5 1,1,2-Trichloroethane	8. U	8. U	8. U	10. U	8. U	10. U
1 1 2 2 3	2 Benzene	8. U	8. U	8. U	10. U	8. U	10. U
	6 trans-1,3-Dichloropropene	1	8. U	8. U	10. U	8. U	10. U
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 Bromoform	8. U 8. U	8. U	8. U	10. U	8. U	10. U
	1 4-Methyl-2-Pentanone (MIBK)	an and an interest of the second second second second second second second second second second second second	8. U	8. U	10. ປ	8. U	10. U
1.00	6 2-Hexanone	8. U 8. U	8. U	8. U	10. Ŭ	8. Ŭ	10. U
· <del>-</del> · · · -	4 Tetrachloroethene	8. U	8. U	8. U	10. U	8. U	10. U
	5 1,1,2,2-Tetrachloroethane	8. U	8. U	8. U	10. U	8. U	10. U
	7 Obligation	8. U	8. U	8. U	10. U	.8. U	10. U
	7 Chlorobenzene	8. U	8. U	8. U	10. Ŭ	8. U	10. U
	Ethylbenzene	A CONTRACTOR OF THE CONTRACTOR	8. U	8. U	10. U	8. U	10. U
	5 Styrene	8. U 8. U	8. U	8. U	10. U	8. Ŭ	10. U
2.7	7 Xylene (Total)	8. U	8. U	8. U	10. U	8. U	10. υ
	2 cis-1,2-Dichloroethene	8. U	8. U	8. U	10. U	8. 0	10. 0
	trans-1,2-Dichloroethene	Brown and the Committee of the State of the	8. U	8. U	10. U	8. U	10. U
	Methyl tert-butyl ether	to a Million and a series of the control of the control of	8. U	8. U	io. ŭ	8. U	10. ∪
75-71-8	3 Dichlorodifluoromethane	8. U			processors of the third will 49 or a	A SECTION SECTION	1
	1 '	l	1	l	l	<u> </u>	<u> </u>

\*\*\* Validation Complete \*\*\*

# LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>	LTS-S-BB31-18 LTSSBB31:18 210701-013 LTSSBB31:18 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3J-10 LTSSBB3J10 210701-007 LTSSBB3J10 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-C-BB3J-10 LTSCBB3J10 210701-010 LTSCBB3J10 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3J-12 LTSSBB3J12 210701-008 LTSSBB3J12 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3J-14 LTSSBB3J14 210701-009 LTSSBB3J14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3K-10 LTSSBB3K10 210701-004 LTSSBB3K10 07/11/02 07/13/02 07/18/02 Soil UG/KG
CAS #	Parameter	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
76-13-1 79-20-9 110-82-7 108-87-2 106-93-4 98-82-8 541-73-1 106-46-7 95-50-1 96-12-8	Trichlorofluoromethane Trichlorotrifluoroethane (Freon 113 Methyl Acetate Cyclohexane Methyl Cyclohexane 1,2-Dibromoethane Isopropylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> HATRIX> UNITS>	LTS-S-BB3K-12 LTSSBB3K12 210701-005 LTSSBB3K12 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BB3K-14 LTSSBB3K14 210701-006 LTSSBB3K14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BC02-12 LTSSBC0212 209315-017 LTSSBC0212 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-C-BCU4-22 LTSCBC0422 209315-016 LTSCBC0422 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTSSBC0422 209315-015 LTSSBC0422 04/26/02 04/26/02 05/07/02 Soil UG/KG	
CAS #	Parameter	210701 VAL	210701 VAL	209315 VAL	209315 VAL	209315 VAL	
l	Chloromethane	10. U	8. U 8. U	9. U 9. U	8. U 8. U	15. U 15. U	
	Bromomethane Vinyl chloride	10. U	8. U	9. U	8. U	15. U	
	Chloroethane	10. O Ú	8. U	9. U	8. ∪	15. U	
	Methylene chloride	10. U	8. U	9. U	8. U	15. U 15. U	
=,	Acetone	12. J	10. 8. U	13. 9. U	8. U 8. U	15. U	
	Carbon disulfide 1,1-Dichloroethene	10. U 10. U	8. U . 8. U	9, U	8. U	15. U	
	1,1-Dichloroethane	10. U	8. U	9. U	8. U	<b>15.</b> U	e ewalter in the e
	Chloroform	10. U	8. U	9. U	8. U	15. U	
	1,2-Dichloroethane	10. U	8. U	9. U 9. U	8. U 8. U	15. U 15. U	
	2-Butanone (MEK) 1,1,1-Trichloroethane	10. U 10. U	8. U 8. U	9. U	8. U	15. U	
	Carbon tetrachloride	io. i	8. Ü	9. U	8. U	15. U	fer de la straktiva (18
	Bromodichloromethane	10. U	8. U	9. U	8. U	15. U	udra sayiya i ya
	1,2-Dichloropropane	10. U	8. U	9. U ' 9. U	8. U 8. U	15. U 15. ∪	
	cis-1,3-Dichloropropene Trichloroethene	10. U 10. U	8. U 8. U	9. U 9. U	8. U	15. Ŭ	
	Dibromochloromethane	10. U	8. U	9. U	8. U	15. U	
	1,1,2-Trichloroethane	10. U	8. U	9. U	8, U	15. U	
71-43-2	Benzene	10. U	`8. U	9. U	8. U	15. ບ 15. ບ	
1	trans-1,3-Dichloropropene	10. U 10. U	8. U 8. U	9. U 9. U	8. U 8. U	15. U	14 M 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Bromoform 4-Methyl-2-Pentanone (MIBK)	10.	8. U	ý. Ŭ	8. ÚJ	15. U	
1.6.5	2-Hexanone	10. U	8. U	9. U	8. UJ	15. U	
1 1 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tetrachloroethene	10. U	8. U	9, U	8, UJ	15. U	
	1,1,2,2-Tetrachloroethane	10. U 10. U	8. U 8. U	9. U 9. U	8. UJ 8. UJ	15. U 15. U	
108-88-3	Totuene   Chlorobenzene	10. U	8. U	9. U	8. UJ	15. U	, .
	Ethylbenzene	10. Ŭ	8. U	9. U	8. UJ	15. U	
100-42-5	Styrene	10. U	8. U	9. U	8. UJ	15. U	
	Xylene (Total)	10. U	8. U 8. U	9. U 9. U	8. UJ 8. U	15. U 15. ∪	
	cis-1,2-Dichloroethene trans-1,2-Dichloroethene	10. U 10. U	8. U 8. U	9. Ü	8. U	15. U	lander in de Maria Service. Maria de la Maria Service.
	Methyl tert-butyl ether	10. U	8. U	9. U	8. U	- 15. U	
	Dichlorodifluoromethane	10. U	8. U	چې بي <b>ن ل</b> اسم د يو <b>9.</b> پې ښو و	8. U	15. U	

#### LIBERTYVILLE TRAINING SITE 6A & 7 FURTHER INVESTIGATION Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID> ORIGINAL ID> LAB SAMPLE ID> ID FROM REPORT> SAMPLE DATE> DATE EXTRACTED> DATE ANALYZED> MATRIX> UNITS>		LTS-S-BB3K-14 LTSSBB3K14 210701-006 LTSSBB3K14 07/11/02 07/13/02 07/18/02 Soil UG/KG	LTS-S-BC02-12 LTSSBC0212 209315-017 LTSSBC0212 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-C-BC04-22 LTSCBC0422 209315-016 LTSCBC0422 04/26/02 04/26/02 05/07/02 Soil UG/KG	LTS-S-BC04-22 LTSSBC0422 209315-015 LTSSBC0422 04/26/02 04/26/02 05/07/02 Soil UG/KG
CAS #	Parameter	210701 VAL	210701 VAL	209315 VAL	209315 VAL	209315 VAL
76-13-1 79-20-9 110-82-7 108-87-2 106-93-4 98-82-8 541-73-1 106-46-7 95-50-1 96-12-8	Trichlorofluoromethane Trichlorotrifluoroethane (Freon 11: Methyl Acetate Cyclohexane Methyl Cyclohexane 1,2-Dibromoethane Isopropylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene	10. U ) 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U 10. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	9. U 9. U 9. U 9. U 9. U 9. U 9. U 9. U	8. U 8. U 8. U 8. U 8. U 8. U 8. U 8. U	15. U 15. U 15. U 15. U 15. U 15. U 15. U 15. U 15. U 15. U 15. U 15. U 15. U 15. U 15. U